



TANDEM WAGONS

2026 AND NEWER

OWNERS MANUAL SAFETY AND MAINTENANCE INSTRUCTIONS OM-TANDEMS

HEARTLAND AG SYSTEMS
1180 STATE HWY 7 EAST
HUTCHINSON, MN. 55350
(320) 587-4030

ISSUE
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WARRANTY REGISTRATION

TO THE DEALER:

Inspect the implement thoroughly after assembly to be certain it is functioning properly before delivering it to the customer. Check off each item as it is found satisfactory or after proper adjust is made.

PRE -DELIVERY CHECKLIST

- ____ 1. All hardware properly tightened.
- ____ 2. Lubrication of grease fittings.
- ____ 3. All decals properly located and readable.
- ____ 4. Other adjustments, "level operation", "drawbar height", etc.
- ____ 5. Proper tongue weight after all options are mounted.
Adjustments made if required.
- ____ 6. Overall condition. Touch-up paint any scratches. Clean and polish
- ____ 7. Operator's manual.

Review the operator's manual with the customer. Explain the following:

- ____ 1. Safe operation and service
- ____ 2. Correct machine installation and operation.
- ____ 3. Correct and periodic lubrication and maintenance.
- ____ 4. Daily and periodic inspection.
- ____ 5. Troubleshooting.
- ____ 6. Storing machine.
- ____ 7. Heartland AG Systems parts and service
- ____ 8. Have the customer write the machine model and serial number in the space provided in the manual introduction
- ____ 9. Give the customer the operator's manual and encourage the customer to read the manual carefully.

Seller Information

Date set-up _____
Signature _____
Dealer name _____
Address _____
City, state, zip _____
Phone _____

Customer Information

Date delivered _____
Customer name _____
Customer address _____
Signature _____
Model number _____
Serial number _____

PLEASE FILL OUT THIS SHEET AND RETURN TO HEARTLAND AG SYSTEMS

1180 State Highway 7 East Hutchinson, MN 55350

www.heartlandag.com | Heartland Agriculture, LLC dba Heartland AG Systems

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TO THE OWNER

This manual has been prepared to assist you in the assembly of your new equipment and contains information pertaining to safety, operating information and all its parts.

Our personnel in sales and service are always available to assist you when questions arise concerning the assembly and operation of your machine.

When ordering parts, please refer to part numbers and descriptions as listed throughout this book. All parts and whole goods will be shipped FOB Hutchinson, Minnesota. Always check merchandise immediately upon receipt for damage or shortage. Note any discrepancy on the carrier's bill of lading and notify Heartland Ag Systems within 10 days.

Any returned goods will be subject to a 20 percent restocking charge.

Heartland Ag Systems reserves the right to make improvements and modifications on equipment without obligation to change previously built equipment. All prices are subject to change without notice.

Warranty Policies and Terms

The Heartland Agriculture, LLC warranty is a limited warranty that is provided to the retail purchaser in return for consideration paid as part of the purchase price for a product. The selling dealer must review the warranty coverage with the retail purchaser and obtain a signature on the Operators Manual for warranty verification.

The warranty described here is for Heartland Agriculture, LLC doing business as Heartland AG Systems and its product line Heartland AG Systems Equipment sold and registered in the United States and Canada and normally operated in the United States and Canada.

Warranty Period

The warranty period for all coverage begins at the time that any person, dealer or agent first places the unit into service. At the latest, a unit is placed into service when purchased or delivered to a purchaser.

What's Covered

If a defect in material or workmanship is found in a unit and reported during the Warranty period, Heartland AG Systems will pay parts and labor costs to repair the defects if the services are performed by an authorized Heartland AG Systems dealer. If parts are needed during the repair, Heartland AG Systems will, at its option, use genuine Heartland AG Systems, or remanufactured parts.

Heartland AG Systems provides no warranty, express or implied, for a component or other item that is separately warranted to the purchaser by its manufacturer, such as tires. Check with your local dealer for these details.

Exclusive Remedy

The remedy of repairing a defect in material or workmanship at a Heartland AG Systems dealership under the terms of this warranty is the purchaser's exclusive remedy and is in lieu of any other remedy otherwise available.

No Modification or Extension of Warranty

The Heartland AG Systems Warranty is limited to the written terms in the warranty statement. Heartland AG Systems does not authorize any person, dealer, or agent to change or extend the terms of this warranty in any manner. Any assistance to the purchaser in the repair or operation of any Heartland AG Systems product outside the terms or limitations or exclusions of this warranty will not constitute a waiver of the terms, limitations or exclusions of this warranty, nor will such assistance extend or re-establish the warranty.

The warranty is void if the unit is used in an application for which it is not designed or the unit has been scrapped, salvaged, stolen, junked or totaled.

Limitations and Exclusions

The Heartland AG Systems warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This section contains the entire Heartland AG Systems warranty. Heartland AG Systems makes no other representations or warranties, expressed or implied, and specifically excludes the implied warranties of merchantability and fitness for particular purpose. Heartland AG Systems will not be liable for incidental or consequential damages resulting from a breach of the written warranty or any implied warranty.

- These limitations and exclusions may not be allowed by some states or provinces and shall not apply to the extent such limitations or exclusions are not allowed by applicable state/provincial law.

Owner's Responsibility

The Heartland AG Systems Warranty remains in effect during the warranty period if the owner performs the required maintenance at the recommended intervals outlined in the product's operator's manual and the unit is operated within its rated capacity. Genuine Heartland AG Systems service parts or Heartland AG Systems approved service parts that meet Heartland AG Systems specifications must be used for maintenance and repairs.

What Is Not Covered

- Replacement of non-defective wear items expected to be replaced during the warranty period, including, but not limited to: lights, fuses, belts, drive sprockets and chains, hose, soil engaging tools, spray tips, fertilizer deflectors, spinner blades and accessories or items replaced due to customer demand.
- Normal maintenance parts and service, including, but not limited to lubrication, coolants, and filters.
- All travel costs associated with hauling or towing a customer's machine to and from a repair center related to any warranty repair unless specifically covered by a program or policy.
- Repairs arising from any unauthorized modification to the product.
- Repairs arising from service performed by agents not approved by Heartland AG Systems.
- Repairs arising from storage deterioration, failure to maintain the equipment, improper use of the equipment, collision or other accident, vandalism, or other casualty, or operation beyond the rated capacity or specifications.
- Repairs arising from abuse or neglect including, but not limited to operation without adequate lubricants or coolant, over-speeding, contaminated fluids, improper storage, starting, warm-up, or shutdown practices.
- Failure of the machine, its implements or attachments caused by improper field application or overloading.
- Premiums charged for over-time labor costs.
- Economic loss, including lost profits, crop loss, equipment rental or other expenses.
- Cost associated with cleaning of machine in preparation for service.
- Loss or damage during shipment.

- Cost of initial setup or installation of any optional equipment or attachments to a unit.
- Items used for repairs include, but are not limited to: solvents, cleaners, anti-seize lubricants, oil-dry, shop towels, shop supplies, special tools, etc.
- Included, but not limited to are checkups, adjustments, and shimming, tune-ups, spread pattern checks, etc.
- Unauthorized modification or field fixes.
- All costs of special tools or shop supplies incurred with repairs.
- Claims for stolen equipment or parts.
- Claims for replacing a complete assembly when the repair is less than the replacement.
- Claims involving the inspection or reconditioning of units.
- Shop comebacks: any duplicate, repeat, or comeback repair resulting from improper diagnosis, testing, or poor service work.
- Cost of removing or installing Non-Heartland AG Systems optional equipment or attachments.

Base Warranty Coverage

- Base Warranty is the factory warranty provided to the customer at no additional cost for a specific period covering the complete machine.

• Liquid Applicators, except tires	1 Year
• Spreaders and Tenders, except tires	1 Year
• Nh3 Wagons, except tires	1 Year
• Bumper Hitches	1 Year
• Disc Covers	1 Year
• Parts	90 Days
• Tandem Wagons (except tires and main frame)	1 year
o Tandem Wagon main frame	5 Years
• Nitromaster Toolbars shall carry the following pro-rated warranty:	
o Year one, all components except tires	100%
o Year two, center section and wings	80%
o Year three, center section and wings	50%
o Year four, center section and wings	25%
o Year five, center section and wings	10%

Tires

Tires installed on all Heartland AG Systems Equipment are warranted and serviced by their manufacturer's service outlets. Some manufacturers have separate service outlets for off road agricultural and construction equipment. Service is available by contacting the tire manufacturer's local representative.

Warranty Registration

All machinery items, which are invoiced by Heartland AG Systems on separate receivables, must be registered for warranty. The warranty period for all coverage begins at the time that any person, dealer, or agent first places the unit into service. New machine warranty coverage begins when the machine is registered. Registration is accomplished when a properly completed Warranty Registration is received and processed by Heartland AG Systems.

Operator's Manual/Warranty Receipt Verification

The Heartland AG Systems New Equipment Limited Warranty for Agricultural Equipment statement must be filled out and signed by the customer indicating receipt and an understanding of the operator's manual and the warranty statement,

- The original form must be mailed to the address on the form.
- Make one copy for the Dealer. This copy must be retained by your dealership the same as any other legal document.
- Make a second copy for the customer.

Heartland AG Systems Responsibility

If a defect in material or workmanship is found in a product during its warranty period, Heartland AG Systems will pay parts and labor costs to repair the defect when the service is performed by an authorized Heartland AG Systems dealer or agent. If parts are needed during the repair, Heartland AG Systems will, at its option, use genuine Heartland AG Systems new or remanufactured parts. These responsibilities include, but are not limited to:

- Costs for repairs that are the result of defects in material and workmanship
- Payment to dealers per policy in a timely manner
- Service information to dealers
- Identify product deficiencies and take corrective action by field campaigns
- Make determination of premature wear
- Provide unit that is free of defects in material & workmanship

Dealer Responsibility

Heartland AG Systems dealers are responsible for providing prompt, courteous, and willing service to all Heartland AG Systems equipment owners. These responsibilities include but are not limited to:

- Equipment set-up and pre-delivery
- Sell the right product for the intended application
- Inspect the unit and initiate recovery action on any shipping damage and or shortages
- Instruct customer on proper use, maintenance, and safety features of machine
- Advise and explain warranty coverage to customer
- Diagnose the problem, repair the unit, and submit claims in accordance with the terms and conditions of the warranty claim policies
- Take responsibility for saying "NO" to customers on non-warranty failures
- Apply failure analysis to questionable repairs
- Complete product update campaigns
- Have properly trained technicians and adequate tools for the job
- Retain proper documentation of failure repaired

Owners Responsibility

The Heartland AG Systems warranty remains in effect during the stated warranty period if the owner performs the required maintenance at the recommended times as outlined in the products operator's manual. Genuine Heartland AG Systems or Heartland AG Systems approved service parts must be used for maintenance. Additionally, the owner will pay for all transportation or travel expenses related to any warranty repair.

These responsibilities include, but are not limited to:

- Perform maintenance as indicated in the operator's manual
- Use the unit in the correct application (non-abusive)
- Notify dealer of failures and have the machine available for repair in a timely manner
- Training operators
- Travel cost, towing charges, and service calls
- Normal wear items
- Machine damage (accidental)
- Adjustments for application
- Machine inspection (daily walk-around)

Warranty Eligibility

The dealer is responsible to determine that any Heartland AG Systems equipment is covered by Heartland AG Systems warranty before performing a repair and that the repair is a warrantable failure. Any dealer who is in doubt of the equipment's warranty eligibility may call Heartland AG Systems for verification.

Warranty Repairs Made by the Customer

If a Heartland AG Systems dealer determines that the customer is capable, and the customer requests permission to perform select(warranty)repairs on his product, the Heartland AG Systems dealer is authorized to grant this customer request. The servicing dealer should provide the parts to the customer upon request, and to assure that customer is properly instructed on how to perform the repairs correctly.

The servicing dealer is responsible and accountable for claim accuracy and validity; specifically, in areas such as the parts replaced date, and assurances that the parts are installed as instructed by Heartland AG Systems. The comments section of the claim should clearly state that the customer installed the parts. The claim reimbursement will be for parts and applicable handling only. No labor is allowed! All replacement parts must be held for possible recall.

Parts Shortages on Whole-Goods

Dealers may submit a claim for parts shortages discovered during pre-delivery or during final assembly at the dealer's location. All claims for shortages must be submitted 5 days from the original ship date from the plant and before the warranty start date.

Warranty Reimbursement Policies

Heartland AG Systems provides for warranty reimbursement due to defects in material or workmanship only. Warranty does not include restoring any machine or portion thereof, which has accumulated hours of operation, to factory new condition. This includes customer owned and used equipment.

Except for only a few items not available through Heartland AG Systems, all Heartland AG Systems manufactured equipment warranty repairs must be performed using only Heartland AG Systems genuine new or remanufactured parts and accessories. Installation of non-Heartland AG Systems parts does not qualify for warranty reimbursement and can void the machine's warranty.

Parts

It is fully expected that all claims be filed using part numbers from the applicable Heartland AG Systems equipment parts book whenever such part number exists. Heartland AG Systems shall reimburse the dealer at the dealer net price (cost) in effect on the parts replaced date.

Labor

Heartland AG Systems shall reimburse the dealer at 80% of the dealer's posted retail shop labor rate. The retail shop labor rate shall be subject to verification by Heartland AG Systems from copies of actual dealer invoices to customers.

Outside Charges

Specialized repair such as that done by a machine shop will be accepted as part of a warranty claim at actual cost. Explain the parts used and the service work performed in the description section of the claim and retain a copy of the receipt. Retain a copy of the invoice with the shop work order to support the claim. Outside repairs that exceed the cost of the same repair, if performed by the dealer, will be reimbursed at a lower rate.

Freight

Heartland AG Systems will pay the freight charges when a warranty recalled part is to be returned to Heartland AG Systems.

Travel

Travel will only be reimbursed when authorized by a field campaign.

Repairing or Replacing Parts and Components

When performing a warranty repair, a complete part or component should not be replaced under warranty if the repair can be accomplished at a lower cost. If the total cost of the repair including the cost of parts, labor, and/or outside labor or materials is less than 75% of the cost of the parts, the part must be repaired.

Filters and Lubricants

Replacement of lubricants and filters do not qualify for warranty reimbursement unless damage caused by a defect in material or workmanship results in contamination or sudden loss of fluid. Lack of maintenance, operator misuse, or neglect will not qualify for warranty reimbursement.



Heartland Agriculture, LLC



Claim Form Guidelines

Claims Must Have

1. Product identification number (PIN) or serial number. All characters of the PIN must be used on the warranty claim.
 - Claims for parts warranty must use the word "PARTS" for the PIN. An invoice that shows date of sale or date of installation must be supplied for all parts claims.
2. Model Number
3. Date of failure – Claims must be submitted within 30 days or repair.
4. Date of repair
5. Warranty start date. Date the unit warranty starts or date the parts were sold for parts warranty.
6. Description of the problem. Describe all problems pertinent to the claim.

Comments should be as precise as possible, attach a separate sheet if necessary, to describe the problem.
7. Description of the work performed. List each significant action of the repair.
8. Itemize labor. Provide a breakdown of labor for each significant repair action in the "Describe Work Performed" column.
9. Shop order numbers. The shop order number field is used for recording your shop work order number that is related to the claim. The shop order number field can also be used to record the parts invoice number when claiming a parts warranty.
10. Customer information. Customer information includes the customer name, city, state, county, and postal code. It must match the warranty registration.
11. Warranty claim total. The total of all reimbursement costs requested.
12. Dealer signature and date. All claims must be signed and dated by the distributor to be validated.

SAFETY

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND SAFETY OF OTHER. FAILURE TO FOLLOW THESE INSTRUCTION CAN RESULT IN INJURY OR DEATH.



**THIS SYMBOL MEANS
ATTENTION
BECOME ALERT
YOUR SAFETY IS INVOLVED!**

SIGNAL WORDS

Note use following signal words **DANGER**, **WARNING**, and **CAUTION** with safety messages. Appropriate signal word for each has been selected using following guidelines:

DANGER:

Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death. This signal word is to be limited to most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING:

Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death, and includes hazards that are exposed when guard are removed. It may also be used to alert against unsafe practices.

CAUTION:

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



EQUIPMENT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing and following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or you yourself, follow them.

In order to provide a better view, certain illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace shield prior to use.

Replace any caution, warning, danger or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this manual.

Do not attempt to operate this equipment under the influence of alcohol or drugs.

Review safety instructions with all users.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE OR ASSEMBLE THIS UNIT UNTIL THEY HAVE A DEVELOPED A THOROUGH UNDERSTANDING OF SAFETY PRECAUTIONS AND HOW IT WORKS.**

Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice instruction on them.

Never exceed limits of a piece of machinery. If its ability to do a job, or to do so safely is in question-**DON'T TRY IT.**



REMEMBER

Your best assurance against accidents is a careful and responsible operator. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or manufacturer.



SAFETY SIGN CARE

- Keep safety signs clean and legible at all times
- Replace safety signs that are missing or have become illegible.
- Replacement parts that displayed a safety sign should also display safety sign.
- Safety signs are available from your distributor, dealer parts department, or factory.

How to install safety signs:

- Be sure that installation area is clean and dry.
- Decide on exact position before you remove backing paper.
- Remove smallest portion of split backing paper.
- Align decal over specified area and carefully press small portion with exposed sticky backing in place.
- Slowly peel back remaining paper and carefully smooth remaining portion of decal into place.
- Small air pockets can be pierced with a pin and smoothed out using piece of decal backing paper.



BEFORE OPERATION

- Carefully study and understand this manual
- Always wear protective clothing and substantial shoes.
- Give equipment a visual inspection for any loose bolts, worn parts, or cracked welds, and make necessary repairs. Follow maintenance safety instructions included in this manual.

- Be sure there are no tools lying on or in equipment.
- Do not use equipment until you are sure that area is clear, especially around children and animals.
- Don't hurry learning process or take equipment for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Make sure that brakes are evenly adjusted.
- Make sure tow rating on vehicle is high enough for what it is towing.
- Do not allow anyone to stand between tongue or hitch and towing vehicle when backing up to equipment.
- Securely attach to towing vehicle. Use appropriately sized hitch ball and/or hitch pin with a mechanical retainer and attach safety chains.
- Criss cross chains under tongue and secure to draw bar cage, mounting loops, or bumper frame.



DURING OPERATION

- **SAFETY CHAINS** If equipment is going to be transported on a public highway, safety chains should be obtained and installed. Always follow state and local regulations regarding safety chains and auxiliary lighting when towing equipment on a public highway. Be sure to check with local law enforcement agencies for your own particular regulations. Only safety chains (not elastic or nylon/plastic tow straps) should be used to retain connection between towing and towed equipment in event of separation of primary attaching system.
- Install safety chains by crisscrossing chains under tongue and secure to draw bar cage, mounting loops or bumper frame.
- **When attaching the emergency cable allow adequate slack to keep from activating brakes due to interference from parts of the coupler or other attachments on the towing vehicle. Each vehicle tongue configuration is different and therefore each should be handled individually to keep the routing free from entanglements and securely attached to perform as designed in case of emergency disconnection from the towing vehicle.**
- Beware of bystanders, **PARTICULARLY CHILDREN!** Always look around to make sure it is safe to start engine of towing vehicle or move equipment. This is particularly important with higher noise levels, as you may not hear people shouting
- **NO PASSENGERS ALLOWED-** Do not carry passengers anywhere on or in equipment.
- Do not clean, lubricate, or adjust your equipment while it is moving.
- When halting operation, even periodically, set towing vehicles parking brake, shut off engine, and **remove the ignition key.**

- Be extra careful when using on inclines.
- **MANUEVER TOWING UNIT AT SAFE SPEEDS.**
- Avoid loose gravel, rocks, and holes, they can be dangerous for equipment operation or movement.
- Allow for overall length when making turns.
- Keep all bystanders and pets clear of work area.
- Operate towing vehicle from operators' seat only.
- Never leave running equipment attachments unattended.
- As a precaution, always recheck hardware on equipment following every 100 hours or 50 miles. Correct all problems. Follow maintenance safety procedures.



FOLLOWING OPERATION

- Following operation, or when unhitching, stop towing vehicle, set brakes, shut off the engine and **remove the ignition key.**
- Store unit in an area away from human activity.
- Do not permit children to play on or around stored unit.
- Make sure all parked units are on a hard, level surface and engage all safety devices
- Wheel chocks may be needed to prevent unit from rolling.



HIGHWAY AND TRANSPORT OPERATIONS

- Adopt safe driving practices
 - Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop.
 - Reduce speed prior to turns to avoid risk of overturning.
 - Always keep towing vehicle in gear to provide engine braking when going downhill. Do not coast.
 - Do not drink and drive!
- Comply with state and local laws governing highway safety on public roads.
- Use approved accessory lighting, flags and necessary warning devices to protect operators of other vehicles on highway during transport. Various safety lights and devices are available from your dealer.
- Local laws should be checked for all highway lighting and marking requirements.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.

- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight at which you are operating.
- Watch for obstructions overhead and side to side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of equipment when making turns and/or stopping.



PERFORMING MAINTENANCE

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Make sure there is plenty of ventilation. Never operate engine or towing vehicle in a closed building. Exhaust fumes may cause asphyxiation.
- Before working on this unit, stop towing vehicle, set parking brakes, shut off engine and **remove ignition key.**
- Be certain all moving parts and attachments have come to a complete stop before attempting to perform maintenance.
- Always use safety supports and block wheels. Never use a jack to support unit.
- Always use proper tools or equipment for job at hand.
- Use extreme caution when making adjustments.
- Follow torque chart in this manual when tightening bolts and nuts.
- Openings in skin and minor cuts are susceptible to infection from brake fluid. **Without immediate medical treatment, serious infection and reactions can occur.**
- Replace all shields and guards after servicing and before moving.
- After servicing, be sure all tools, parts and service equipment are removed.
- Do not allow grease or oil to build up on the actuator.
- When replacing bolts, refer to owner's manual.
- Refer to bolt torque chart for head identification marking.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. Manufacturer will not claim responsibility for use of unapproved parts or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, manufacturer does not accept any liability for injury or warranty.
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.

BOLT TORQUE

TORQUE DATA FOR STANDARD NUTS, BOLTS, AND CAPSCREWS.

Tighten all bolts to torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt chart as guide. Replace hardware with same grade bolt.

NOTE: Unless otherwise specified, high-strength Grade 5 hex bolts are used throughout assembly of equipment.

Bolt Torque for Standard bolts *



Torque Specifications

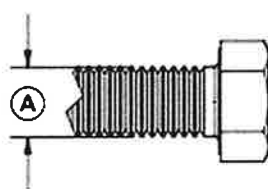
"A"	GRADE 2		GRADE 5		GRADE 8	
	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
1/4"	6	(8)	9	(12)	12	(16)
5/16"	10	(13)	18	(25)	25	(35)
3/8"	20	(27)	30	(40)	45	(60)
7/16"	30	(40)	50	(70)	80	(110)
1/2"	45	(60)	75	(100)	115	(155)
9/16"	70	(95)	115	(155)	165	(220)
5/8"	95	(130)	150	(200)	225	(300)
3/4"	165	(225)	290	(390)	400	(540)
7/8"	170	(230)	420	(570)	650	(880)
1"	225	(300)	630	(850)	970	(1310)

Bolt Torque for Metric bolts *

"A"	CLASS 8.8		CLASS 9.8		CLASS 10.9	
	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
6	9	(13)	10	(14)	13	(17)
7	15	(21)	18	(24)	21	(29)
8	23	(31)	25	(34)	31	(42)
10	45	(61)	50	(68)	61	(83)
12	78	(106)	88	(118)	106	(144)
14	125	(169)	140	(189)	170	(230)
16	194	(263)	216	(293)	263	(357)
18	268	(363)	--	--	364	(493)
20	378	(513)	--	--	515	(689)
22	516	(699)	--	--	702	(952)
24	654	(886)	--	--	890	(1206)

Torque figures indicated are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* GRADE or CLASS value for bolts and capscrews are identified by their head markings.



GRADE-2



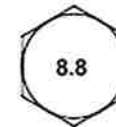
GRADE-5



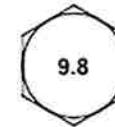
GRADE-8



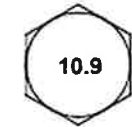
CLASS 8.8



CLASS 9.8



CLASS 10.9



Torque Requirements

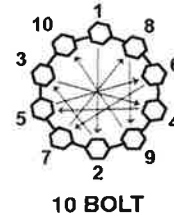
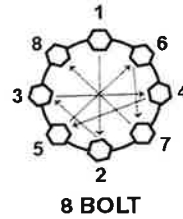
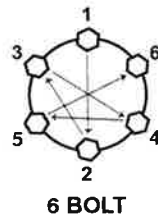
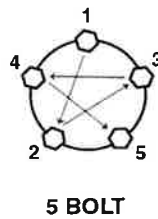
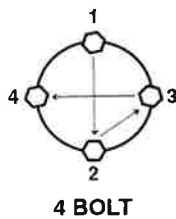
It is extremely important to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches are the recommended method to assure the proper amount of torque is being applied to a fastener.

Note: Wheel nuts or bolts must be applied and maintained at the proper torque levels to prevent loose wheels, broken studs, and possible dangerous separation of wheels from your axle.

Be sure to use only the fasteners matched to the cone angle of your wheel (usually 60° or 90°.)

The proper procedure for attaching your wheels is as follows:

1. Start all bolts or nuts by hand to prevent cross threading.
2. Initially snug (10ft-lbs) the nuts/bolts to align and seat the wheel to the hub in the order described in the torque sequence diagram below.
3. Tightening of fasteners should be performed in stages per the recommended sequence.
 - a. 1st stage – 1/3 of final torque.
 - b. 2nd stage – 2/3 of final torque.
 - c. 3rd stage – Final torque



4. Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and re-torque after the first 50 miles and again at 100 miles. Check periodically thereafter.

Wheel & Rim Torque Requirements

Fastener Diameter -Thread Pitch	Type	Grade	Minimum Torque ft. lbs.	Maximum Torque ft. lbs.
1/2" - 20	Bolt	5	60	70
1/2" - 20	Cone Nut	5	80	90
9/16" - 18	Bolt	5	90	100
9/16" - 18	Cone Nut	5	115	130
5/8" - 18	Cone Nut	5	165	185
3/4" - 16	Bud Nut	8	415	460
3/4" - 16	Flange Nut	8	415	460
7/8" - 14	Flange Nut	8	660	735

MAINTENANCE SCHEDULE CHECK LIST

ITEM	FUNCTION REQUIRED	WEEKLY	EVERY 3 MONTHS OR 3,000 MILES	6 MONTHS OR 6,000 MILES	12 MONTHS OR 12,000 MILES
WHEEL TORQUE	CHECK AT 50 MILES		☒		
BRAKES	TEST THAT THEY ARE OPERATIONAL	AT EVERY USE			
BRAKE ADJUSTMENT	ADJUST TO PROPER OPERATING CLEARANCE		☒		☒
BRAKE MAGNETS	INSPECT FOR WEAR AND CURRENT DRAW			☒	
BRAKE LININGS	INSPECT FOR WEAR OR CONTAMINATION				☒
BRAKE CONTROLLER	CHECK FOR CORRECT AMPERAGE & MODULATION			☒	
BRAKE CYLINDERS	CHECK FOR LEAKS, STICKING				☒
BRAKE LINES	INSPECT FOR CRACKS, LEAKS, KINKS				☒
TRAILER BRAKE WIRING	INSPECT WIRING FOR BARE SPOTS, FRAY, ETC				☒
BREAKAWAY SYSTEM	CHECK BATTERY CHARGE AND SWITCH OPERATION	AFTER EVERY USE			
HUB/DRUM	INSPECT FOR ABNORMAL WEAR OR SCORING				☒
WHEEL BEARING & CUPS	INSPECT FOR CORROSION OR WEAR. CLEAN & REPACK				☒
SEALS	INSPECT FOR LEAKAGE. REPLACE IF REMOVED.				☒
SPRINGS	INSPECT FOR WEAR, LOSS OF ARCH				☒
SUSPENSION PARTS	INSPECT FOR BENDING, LOOSE FASTENERS, WEAR			☒	
HANGERS	INSPECT WELDS				☒
WHEEL NUTS AND BOLTS	TIGHTEN TO SPECIFIED TORQUE VALUES		☒		
WHEELS	INSPECT FOR CRACKS, DENTS OR DISTORTION.			☒	
TIRE INFLATION PRESSURE	INFLATE TIRES TO MANUFACTURERS SPECS	☒			
TIRE CONDITION	INSPECT FOR CUTS, WEAR, BULGING, ETC.		☒		

SERVICE RECORD

See Lubrication and Maintenance sections for details of service. Copy this page to continue record.

ACTION CODE: L - LUBRICATE CL - CLEAN R - REPACK

HOURS SERVICED BY MAINTENANCE																			
Weekly or 40 Hours																			
L 5th Wheel Pivot (3)																			
Bi-Annually																			
R Wheel Bearings																			
CL Entire Unit																			

It is recommended that a separate service record be kept for each unit in your fleet.

See Lubrication and Maintenance sections for details of service. Copy this page to continue record.

ACTION CODE: L - LUBRICATE CL - CLEAN R - REPACK

HOURS SERVICED BY MAINTENANCE																			
Weekly or 40 Hours																			
L 5th Wheel Pivot (3)																			
Bi-Annually																			
R Wheel Bearings																			
CL Entire Unit																			

It is recommended that a separate service record be kept for each unit in your fleet.

GENERAL WAGON ASSEMBLY

OPERATION AND MAINTENANCE SUMMARY

1. Assemble your wagon per the appropriate parts illustration (line drawing). Make sure all hardware is securely tightened. Generously grease all the pivot points indicated on the assembled wagon illustrations.
2. Bolts securely tightened at assembly may loosen under loaded operation. Within the first hour of loaded operation, check the wheel bolts for tightness. Retighten with a torque wrench. (*See BOLT TORQUE data sheet in this manual for specific torque requirements.*) Then check the tire pressure with an air gauge. Inflate tires as required to the recommended level.
3. After every 100 hours of operation, check all assembly and mounting bolts for tightness.
4. Grease all pivot points shown on the assembled wagon illustrations. If your wagon is equipped with brakes, check the brake fluid level and check the brake lines for leaks.
5. Visually inspect tire pressure daily. After every 100 hours check the pressure with an air gauge. (*See TIRE data sheet in this manual for the specific air pressure required for your specific tire size and load.*) Check the wheel bolts with a torque wrench. (*see BOLT TORQUE data sheet in this manual for specifications.*)
6. **TOWING ON PUBLIC ROAD.** Do not connect two wagons together. Do not exceed 20 MPH. It is recommended that a ¾ ton truck or larger be used when towing wagons up to 16,000# G.V.W.R. A one ton or larger truck should be used when towing wagons of greater than 16,000# G.V.W.R.

For winter storage:

Thoroughly wash the unit using a pressure washer. Grease the fifth wheel pivot point. Apply oil to the pull collar and reach pipe at the rear axle. Inspect the wheel bearings and repack with grease as required. If your wagon is equipped with brakes, check the brake shoe wear and brake fluid leaks. Make sure the brake fluid reservoir is full. Touch up all paint knicks and scratches.

WARNING! Check Lug Nuts For Tightness and Tire Pressure Daily

TIRE/RIM MOUNTED	WAGON & MISC TIRE CHART TIRE SIZE & BOLT PATTERN	WHEEL OFFSET	TIRE PRESS/ MAX SPEED	LOAD CAPACITY	TIRE P/N	RIM P/N	STEM P/N
40003	11L X 15 (8 PLY) ON 15 X 8 (6 ON 6)	+ 1 1/8	36 PSI / 30 MPH	2540 LBS	10261	47005589	20120012
40004	12.5L X 15 (10 PLY) ON 10 X 15 (6 ON 6)	+ 1 1/8	44 PSI / 30 MPH	3420 LBS	20121215	47005809	20120012
40028	11 X 22.5 NYLON TRANSPORT ON 22.5 X 8.25 (8 ON 8)	- 1 1/2	65 PSI / 30 MPH	4206 LBS	179906	47006023	20120022
			70 PSI / 30 MPH	4530 LBS			
			80 PSI / 30 MPH	4990 LBS			
			90 PSI / 30 MPH	5510 LBS			
40033	11 X 22.5 NYLON TRANSPORT ON 22.5 X 8.25 (8 ON 8) HD (8000#)	- 1 1/2	65 PSI / 30 MPH	4206 LBS	179906	47006026	20120022
			70 PSI / 30 MPH	4530 LBS			
			80 PSI / 30 MPH	4990 LBS			
			90 PSI / 30 MPH	5510 LBS			
40034	12.5L X 15 HWY ON 10 X 15 (6 ON 6)	+ 1 1/8	60 PSI / 30 MPH	4480 LBS	364806	47005809	20120022
40039	USED 385/65R22.5 ON 22.5 X 11.75 (8 ON 8) (8K CAP)	- 1 1/2	45 PSI / 30 MPH	4100 LBS	38565225U	47071322	20120022
			55 PSI / 30 MPH	5013 LBS			
			65 PSI / 30 MPH	5925 LBS			
			70 PSI / 30 MPH	6380 LBS			
			90 PSI / 30 MPH	7650 LBS			

IMPROPER TIRE PRESSURES MAY LEAD TO PREMATURE TIRE FAILURE AND WAGON FATIGUE

WAGON	WHEEL OPTIONS	WAGON	WHEEL OPTIONS
AG111	40004 / 40034	SR1000	40003 / 40004 / 40034
AG116	(FLAT) 40033	SR1250	40004 / 40034
	(DRAINABLE) 40028 / 40033 / 40039		
AG1000	40003 / 40004 / 40034		
AG1250	40004 / 40034		

SPECIFICATIONS FOR LUBRICATING AND ASSEMBLING HUBS FOR FARM EQUIPMENT

TYPE OF GREASE

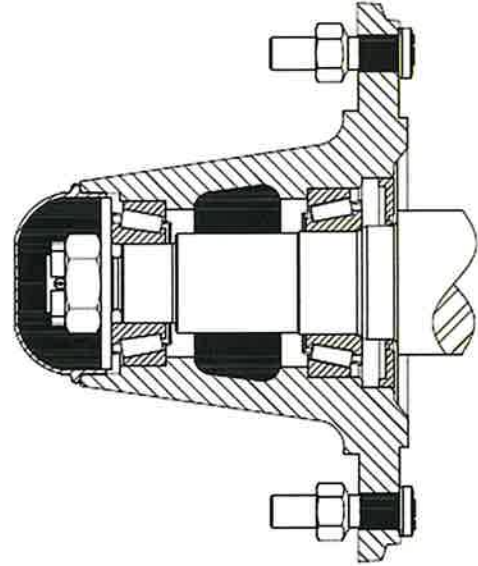
- Lithium Base
- ASTM Worked penetration of 284
- Drop point 368 degrees F

EXAMPLES

- *Shell Alvina EP2*
- *Mobilux EP2*

HUB AND SPINDLE ASSEMBLY PROCEDURE

- Inspect the hub/cup assembly to assure the cups are seated against shoulders on the hubs.
- Grease the inner cone and place it into the cup. **MAKE SURE IT IS STRAIGHT.**
- Install the grease seal. Use a plug to place pressure evenly against the seal, **SO THAT YOU DON'T** bend the case during installation.
- Pump grease into the hub cavity as indicated above. **DO NOT OVERFILL.** Too much grease can cause the seal to fail or the dust cap to pop loose.
- Use grease to lubricate the seal lip and place the hub onto the spindle. Rotate the hub while installing to the spindle so the seal doesn't "roll under". As the spindle goes into the inner cone, try to feel that the cone is not cocked and is properly seated on the spindle.
- Grease the outer cone and place it over the spindle and into the cup.
- Assemble the washer and nut to the spindle. Using an air wrench to bring the nut down to the cone is not recommended. The washer **MUST NOT CONTACT THE CONE** under power. A torque wrench must be used to make first contact to a torque reading of 15 ft/lbs. **ROTATE THE HUB WHILE TIGHTENING THE NUT.** Then back off the nut until it just becomes loose.
- While rotating the hub, retighten the nut to finger tight. Line up the cotter pin hole in the spindle with the slot in the nut. Insert the cotter pin and bend it.
- Fill the hub cap with grease and install.
- Check the seal for a "turned under" lip. Check the hub for excessive end play. Check the hub for free rotation and any indication of roughness, which may indicate mis alignment. If any roughness is noted, disassemble the hub and check the inner cup for any small nicks. If a nick is found, place the hub aside for rework.



6 BOLT HUB ASSY

[611 HUB]

P/N: 47009611

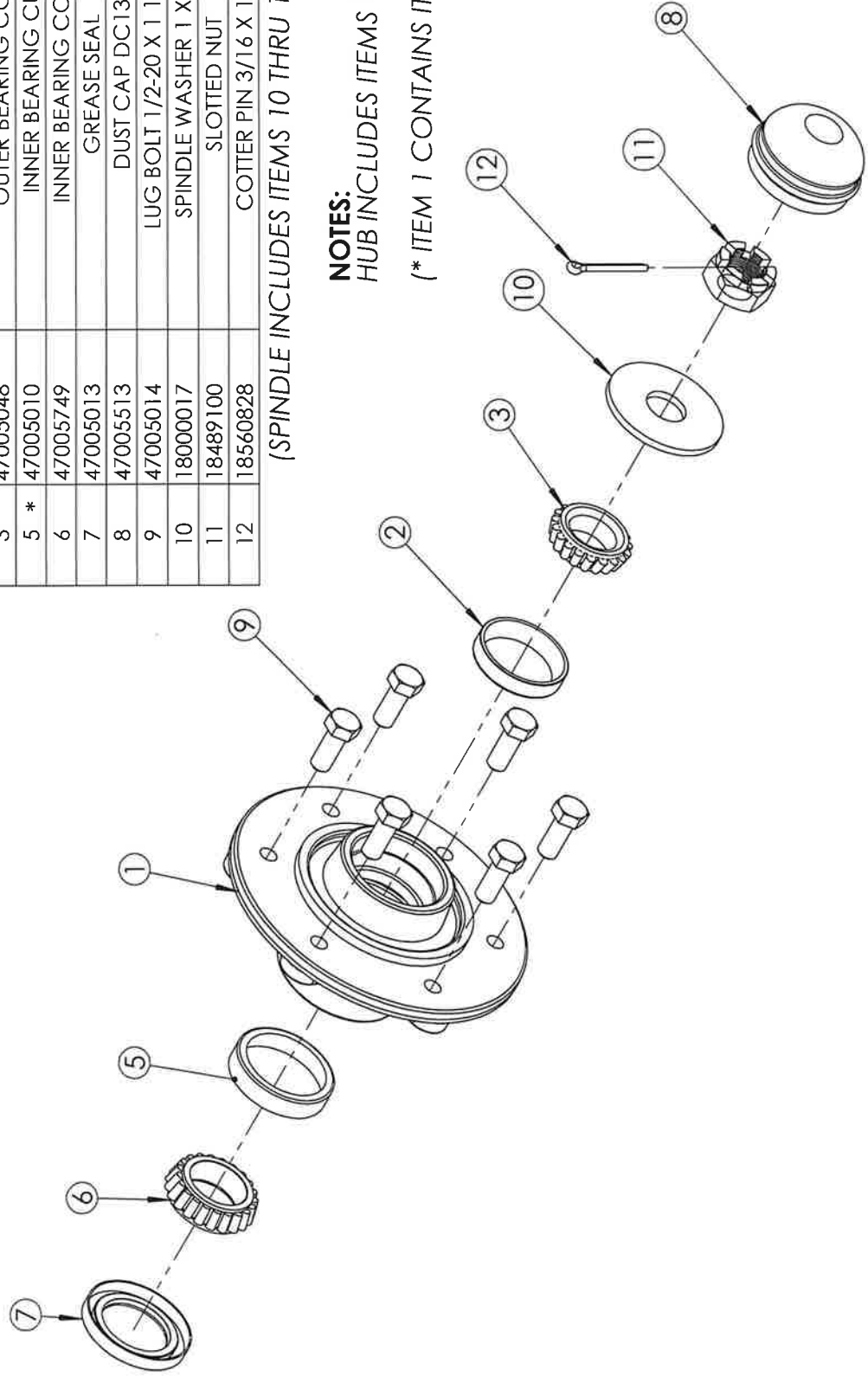
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1 *	47005511	HUB WITH CUPS ONLY	1
2 *	47005710	OUTER BEARING CUP	1
3	47005048	OUTER BEARING CONE	1
5 *	47005010	INNER BEARING CUP	1
6	47005749	INNER BEARING CONE	1
7	47005013	GREASE SEAL	1
8	47005513	DUST CAP DC13	1
9	47005014	LUG BOLT 1/2-20 X 1 1/4 LG	6
10	18000017	SPINDLE WASHER 1 X .187	1
11	18489100	SLOTTED NUT	1
12	18560828	COTTER PIN 3/16 X 1 3/4	1

(SPINDLE INCLUDES ITEMS 10 THRU 12)

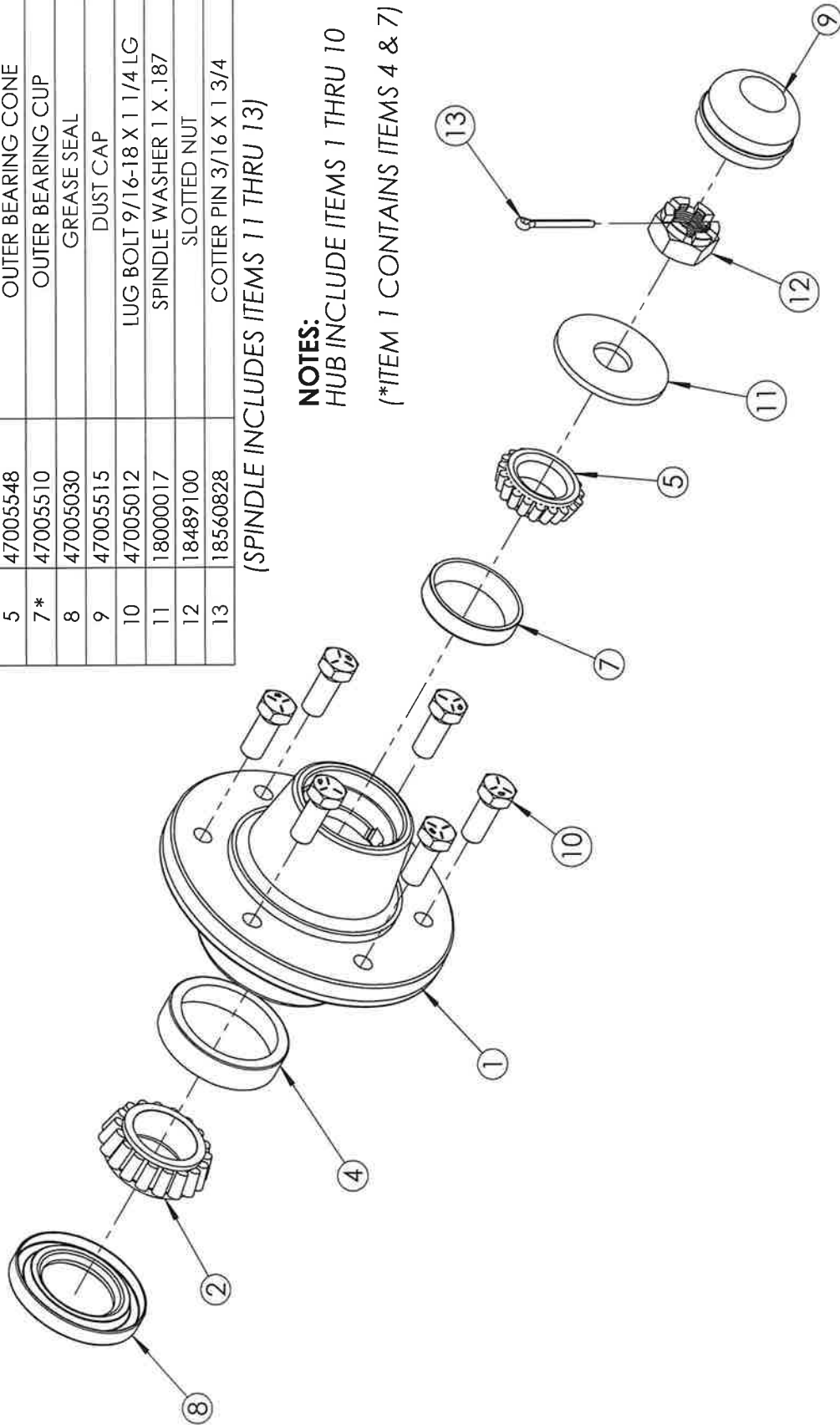
NOTES:

HUB INCLUDES ITEMS 1 THRU 9

(* ITEM 1 CONTAINS ITEMS 2 & 5)



6 BOLT HUB ASSY **618 HUB** **P/N: 47009618**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1*	47005618	HUB WITH CUPS ONLY	1
2	47005580	INNER BEARING CONE	1
4*	47005520	INNER BEARING CUP	1
5	47005548	OUTER BEARING CONE	1
7*	47005510	OUTER BEARING CUP	1
8	47005030	GREASE SEAL	1
9	47005515	DUST CAP	1
10	47005012	LUG BOLT 9/16-18 X 1 1/4 LG	6
11	18000017	SPINDLE WASHER 1 X .187	1
12	18489100	SLOTTED NUT	1
13	18560828	COTTER PIN 3/16 X 1 3/4	1

(SPINDLE INCLUDES ITEMS 11 THRU 13)

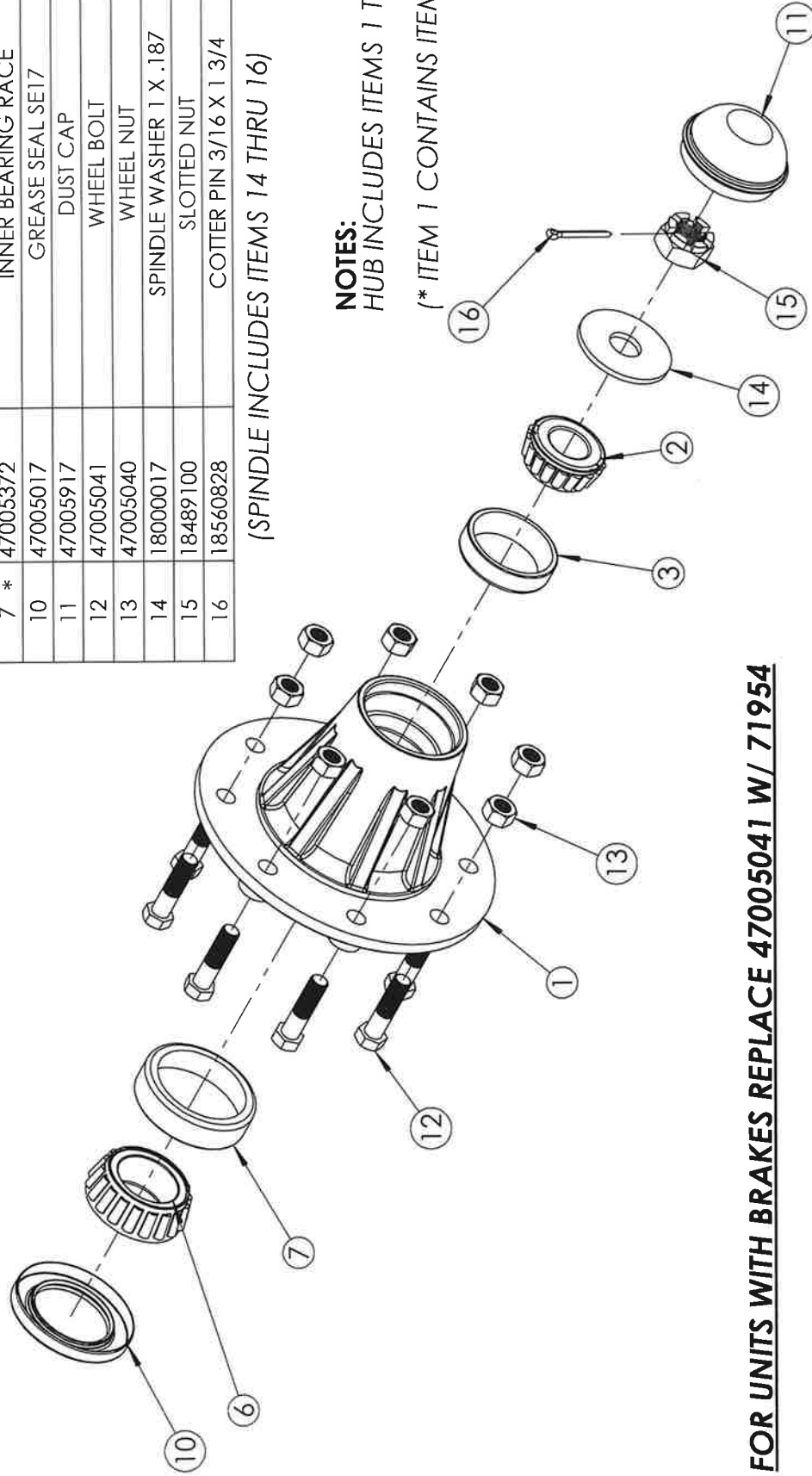
NOTES:
HUB INCLUDE ITEMS 1 THRU 10
(*ITEM 1 CONTAINS ITEMS 4 & 7)

8 BOLT HUB ASSY

[6000#]
P/N: 47009712

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1 *	47005712	HUB W/ RACES	1
2	47005279	OUTER BEARING CONE	1
3 *	47005272	OUTER BEARING RACE	1
6	47005378	INNER BEARING CONE	1
7 *	47005372	INNER BEARING RACE	1
10	47005017	GREASE SEAL SE17	1
11	47005917	DUST CAP	1
12	47005041	WHEEL BOLT	8
13	47005040	WHEEL NUT	8
14	18000017	SPINDLE WASHER 1 X .187	1
15	18489100	SLOTTED NUT	1
16	18560828	COTTER PIN 3/16 X 1 3/4	1

(SPINDLE INCLUDES ITEMS 14 THRU 16)



NOTES:
HUB INCLUDES ITEMS 1 THRU 13
(* ITEM 1 CONTAINS ITEMS 3 & 7)

FOR UNITS WITH BRAKES REPLACE 47005041 W/ 71954

BRAKE CLUSTER SETUP, ADJUSTMENT & BLEEDING

Your brake cluster was centered to the spindled rum before it was tightened to ensure proper operation. When replacing or installing new brake clusters, first finger tighten the bolts mounting the brake flange cluster so it can still float, then install the hub and drum assembly and adjust the brake shoes tight to the drum to center the cluster to the drum. Then, tighten the nuts to hold the cluster in place. Now remove the drum to allow access to the boltheads to hold and torque the nuts to 75 ft/lbs. Then reinstall the hub.

WARNING!

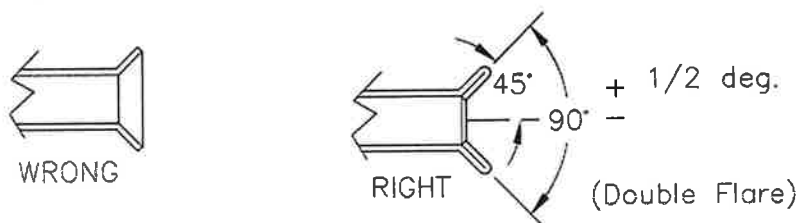
Saltwater, granular fertilizer and other corrosive materials are destructive to metal. To prolong the life of a braking system used under corrosive conditions we recommend that the actuator be flushed periodically with a high pressure water hose. Be sure to regrease bearings and oil all moving parts after the unit has dried. For "end of season" storage remove the brake drum sand clean inside the brakes. Pack the wheel bearings before the drums are reinstalled.

1. INITIAL BRAKE CLUSTER SETUP & ADJUSTMENT

The brake adjustment nut is located through the slot at the bottom of the backing plate. Insert brake tool or screw driver into slotted hole with the handle up and a bit against the adjusting nut, pull down on the handle and rotate the wheel tightening the nut. **ALWAYS ROTATE THE WHEEL IN DIRECTION OF FORWARD TRAVEL ONLY!** When you can no longer rotate wheel, back off tightener 33 clicks to obtain a desired gap of .030" between the brake shoe and the brake drum. **AT ALL TIMES** during the setup and adjustment the drum needs to be rotated in the forward direction of travel because **Heartland Ag Systems** uses free- backing type brake clusters. Check that the brakes function properly when applied and that when released, the brakes do not drag. **ONLY A CERTIFIED PROFESSIONAL MECHANIC SHOULD INSTALL BRAKE CLUSTERS.**

2. BRAKE LINES

Use care in forming tubing to avoid sharp bends or kinks. Use double flare steel tubing to assure leakproof connections. **THIS MUST BE DONE BY A CERTIFIED BRAKE SHOP!**



3. BLEEDING THE SYSTEM

The first requirement for safe, sure hydraulic braking is the use of quality brake fluid. Use only DOT-3 or DOT-4 brake fluid from a sealed container. If pressure bleeding equipment is available, follow the manufacturer's instructions for bleeding the systems.

IF SYSTEM MUST BE BLED MANUALLY, PROCEED AS FOLLOWS:

Fill master cylinder with fluid. Install the bleeder hose on the first wheel cylinder to be bled. *(If tandem axle trailer, bleed rear axle first.)* Have the loose end of the hose submerged in brake fluid in a glass container to observe bubbling. By loosening the bleeder screw located in the wheel cylinder one turn, the system is open to the atmosphere through the passage drilled in the screw. Pump the actuator with long steady strokes. The bleeding operation is completed when bubbles no longer rise to the surface of the fluid. **BE SURE TO CLOSE THE BLEEDER SCREW SECURELY.** Repeat bleeding operation at each wheel cylinder. During bleeding process, replenish the brake fluid so the level does not fall below the half full level in the master cylinder reservoir. After bleeding is completed, make sure the master cylinder reservoir is filled and the filler cap is securely in place. After the bleeding operation is completed, apply pressure to the system and check the entire brake system for leaks.

4. ADJUSTING THE BRAKES (AFTER BLEEDING BRAKES)

On new spreaders or tandems with brakes, trip the emergency brake and check and adjust shoes accordingly to be free and that they hold properly when activated. *(See initial brake cluster & adjustment section above for setup information.)* Check that brakes function properly when applied and that when released, the brakes are releasing properly and do not significantly drag.

WARNING!

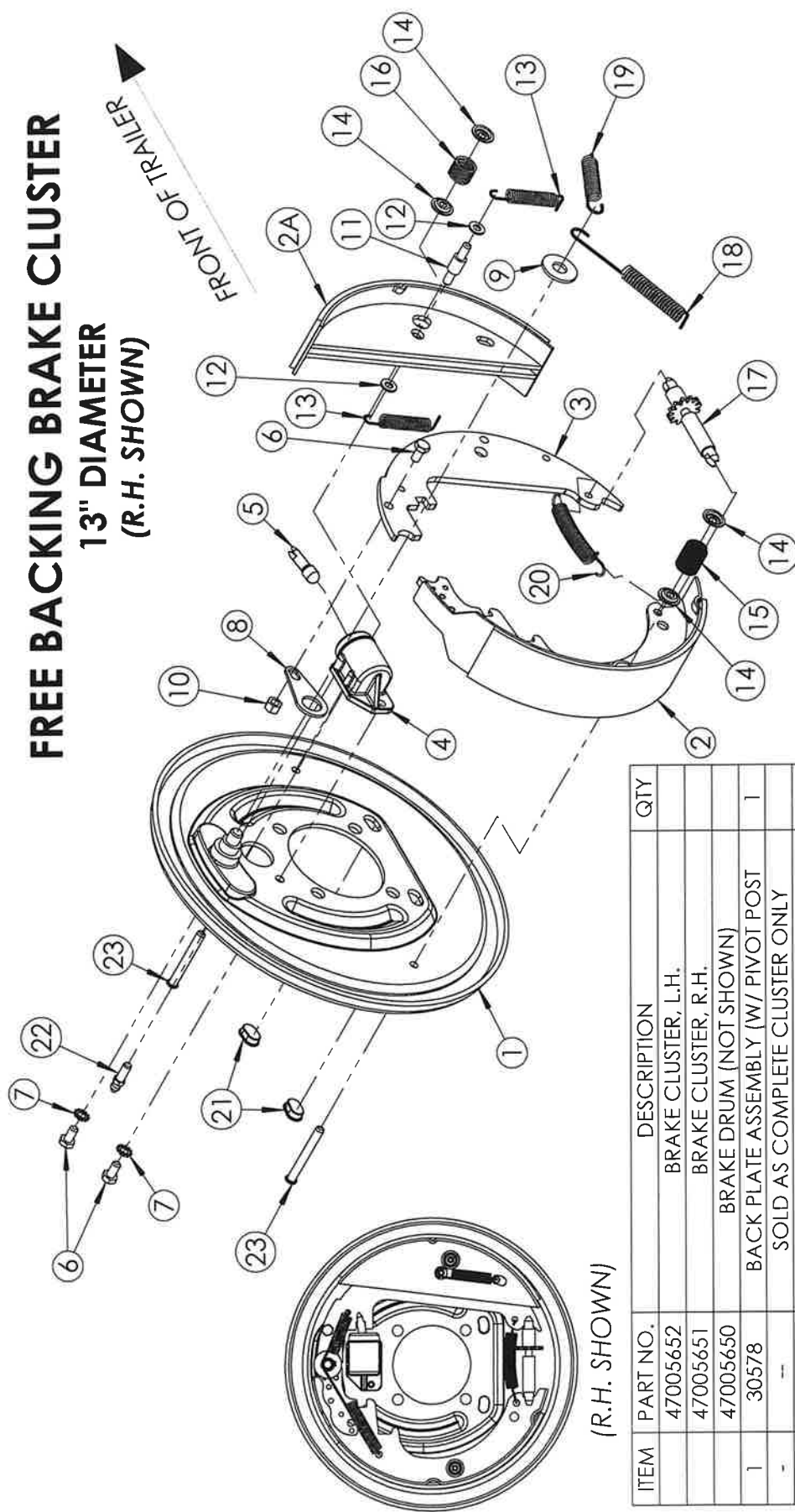
FAILURE TO FOLLOW THESE INSTRUCTIONS, OR FAILURE TO PROPERLY MAINTAIN BRAKES AFTER INSTALLATION CAN RESULT IN LOSS OF BRAKING ACTION, WHICH CAN CAUSE PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE. ONLY A CERTIFIED PROFESSIONAL MECHANIC SHOULD INSTALL BRAKE CLUSTERS.

HAVE YOUR BRAKES INSPECTED BY A CERTIFIED PROFESSIONAL MECHANIC AND ANNUALLY AFTER INSTALLATION.

FREE BACKING BRAKE CLUSTER

13" DIAMETER

(R.H. SHOWN)



(R.H. SHOWN)

ITEM	PART NO.	DESCRIPTION	QTY
	47005652	BRAKE CLUSTER, L.H.	
	47005651	BRAKE CLUSTER, R.H.	
	47005650	BRAKE DRUM (NOT SHOWN)	
1	30578	BACK PLATE ASSEMBLY (W/ PIVOT POST	1
-	--	SOLD AS COMPLETE CLUSTER ONLY	
2	03184	BRAKE SHOE (BACK)	1
2A	03183	BRAKE SHOE (FRONT	1
3	30594	SHOE LEVER	1
4	30582	WHEEL CYLINDER ASSEMBLY, L.H.	1
	30581	WHEEL CYLINDER ASSEMBLY, R.H.	1
5	30587	PUSH ROD	1
6	18056416	BOLT, HEX. HD 5/16-18 UNC X 5/8	3
7	--	EXTERNAL TOOTH WASHER, 5/16	2
8	30593	TRAVEL LINK	1
9	18811400	FLATWASHER, 1/2 USS ZC	1
10	18457600	LOCKNUT, 5/16-18 UNC	1
11	30588	PIN, SPING ANCHOR	1
12	30421	RETAINING RING	2
13	30420	SPRING, SHOE RETURN	2
14	30590	CUP, SHOE HOLD DOWN	4

ITEM	PART NO.	DESCRIPTION	QTY
15	30601	SPRING, SHOE HOLD DOWN - BLUE	1
16	30591	SPRING, SHOE HOLD DOWN - MAROON	1
17	30598	ADJUSTING SCREW BOLT	1
	30599	ADJUSTING SCREW NUT	1
18	30595	SPRING, SHOE	1
19	30596	SPRING LEVER	1
20	30597	SPRING, ADJUSTING SCREW	1
21	92455	COVER GROMMET, ADJUSTING HOLE	2
22	30580	BLEEDER	1
23	30589	PIN, SHOE HOLD DOWN - #6	2
	94005	WHEEL CYLINDER REPAIR KIT	
		INCLUDES (1 EACH) SPRING, CUP, AND BOOT	

TANDEM TROUBLE SHOOTING

READ THROUGH THIS TROUBLE SHOOTING PAGE.

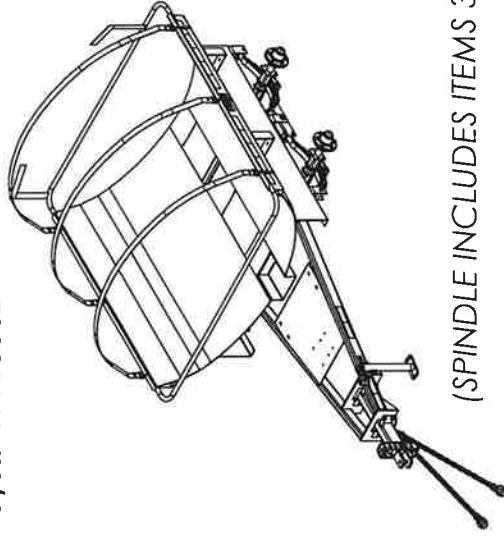
If you have a problem that is difficult to solve, please contact your local Heartland Ag Systems dealer or distributor. Before you call, please have this Operator's Manual ready.

PROBLEM	CAUSE	SOLUTION
Wagon sways on road.	Tire pressure too low.	Inflate to proper pressure.
	Traveling too fast.	Slow down to 20 mph.
	Bent axle or spindle.	Replace.
	Loose wheel bolts.	Tighten to specified torque.
	Loose or worn wheel bearings.	Tighten or replace.
	Pulling more than one unit.	Pull only one unit.
Wagon pulls to one side.	Uneven tire pressure.	Inflate to proper pressure.
	One brake is dragging.	Adjust brakes. Replace shoes if worn.
Tire wobbles.	Bent wheel.	Replace.
	Loose wheel bolts.	Tighten to specified torque.
	Loose or worn wheel bearings.	Tighten or replace.
	Loose spindle nut.	Snug appropriately and replace cotter pin.
Excessive bearing wear.	Lack of lubrication.	Lubricate.
	Spindle nut too loose or too tight.	Snug appropriately and replace cotter pin.
	Bent spindle.	Replace.
	Dirt inside hub.	Replace seal and inspect dust cap.
	Moisture inside hub.	Use lithium based grease.
Trouble stopping.	Traveling too fast.	Slow down to 20 mph.
	Pulling vehicle too light.	Use one ton truck or larger.
	Brakes not working.	Adjust or replace.
Bad tire wear.	Axle bent or out of line.	Replace or repair.
	Bent spindle.	Replace.
	Bent wheel.	Replace.
	Traveling too fast.	Slow down to 20 mph.

AG111 TANDEM WAGON

PARTS LISTING

P/N: 41110002



(SPINDLE INCLUDES ITEMS 31 THRU 33)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47009521	MAIN FRAME (AG111)	1
2	47001276	CLAMP PLATE, U-BOLT	4
3	47001319	CLEVIS PIN	1
4	47009285	HITCH CLEVIS	1
5	47009359	POLE, SOLID-TANDEM	1
6	47009527	SPRING EQUALIZER, LH	1
7	47009533	AXLE, TANDEM	2
8	47309527	SPRING EQUALIZER, RH	1
9	47419095	STRAP ASSY AG111	3
10	47000314	SAFETY CHAIN W/ HARDWARE	1
11	47000550	COMPRESSION SPRING	3
12	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
13	47005007	LEAF SPRING (7) LEAF	4
14	47001528	SPRING BOLT, 1-8NC X 5 LG	2
15	18496800	FLANGE NUT, 3/8-16 NC	6
16	18436800	NUT 3/8 NCZC	6
17	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
18	18891600	WASHER. LOCK 5/8 ZC	8
19	18417900	NUT, 5/8 NC	8
20	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
21	600378	JACK, TWL158 DTSF W/P&C	1
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
25	18457650	NUT CTR LOCK 1/2 ZP ZC	4
26	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
27	18418400	NUT HX 3/4 NC ZC	4
28	18439000	HEX NUT 1-8 NC	2
29	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
30	47009618	HUB COMPLETE (W/O BRAKES)	4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
31	18000017	SPINDLE WASHER 1 X .187	4
32	18489100	SLOTTED NUT	4
33	18560826	COTTER PIN 3/16 X 1 1/2	4
34	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
35	18-4	REFLECTIVE TAPE PACKAGE	1

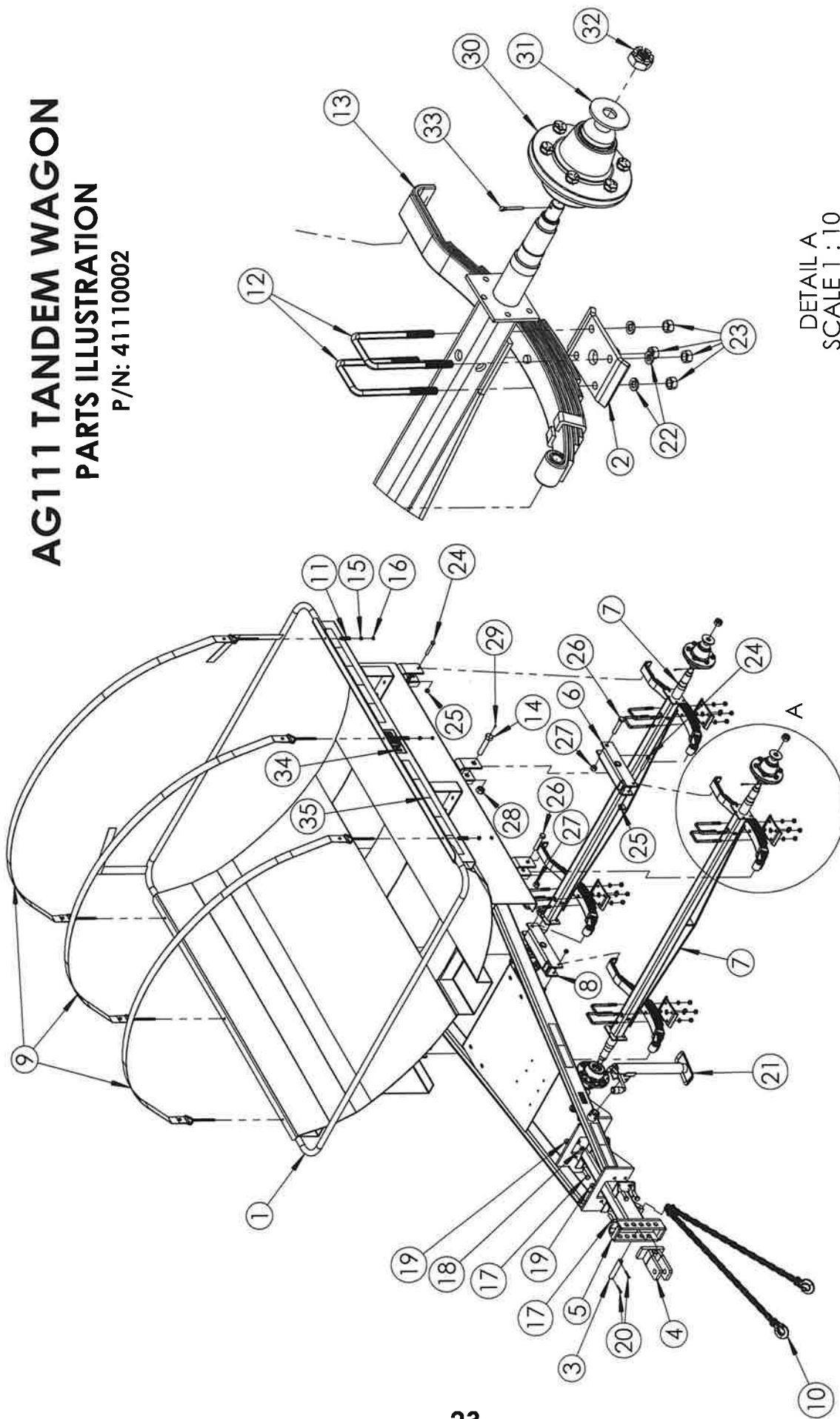
OPTIONS

TIRE PACKAGE		
40004	12.5L X 15 10-PLY TIRE/RIM	4
40034	12 X 15 10-PLY IMP. TREAD HWY SER. TIRE/RIM	4
OPTIONS		
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
47009323	FENDER PACKAGE	1

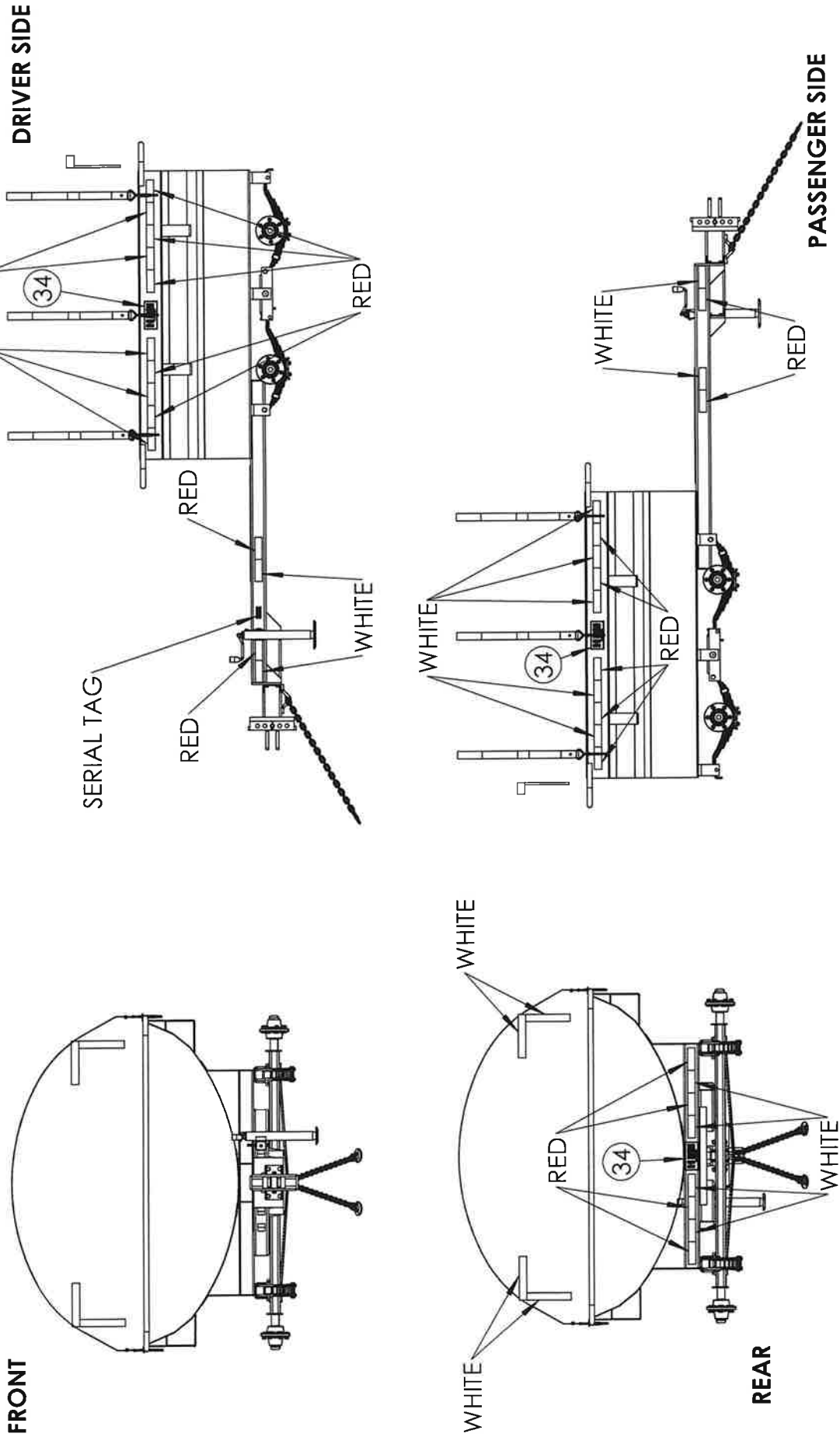
AG111 TANDEM WAGON

PARTS ILLUSTRATION

P/N: 41110002

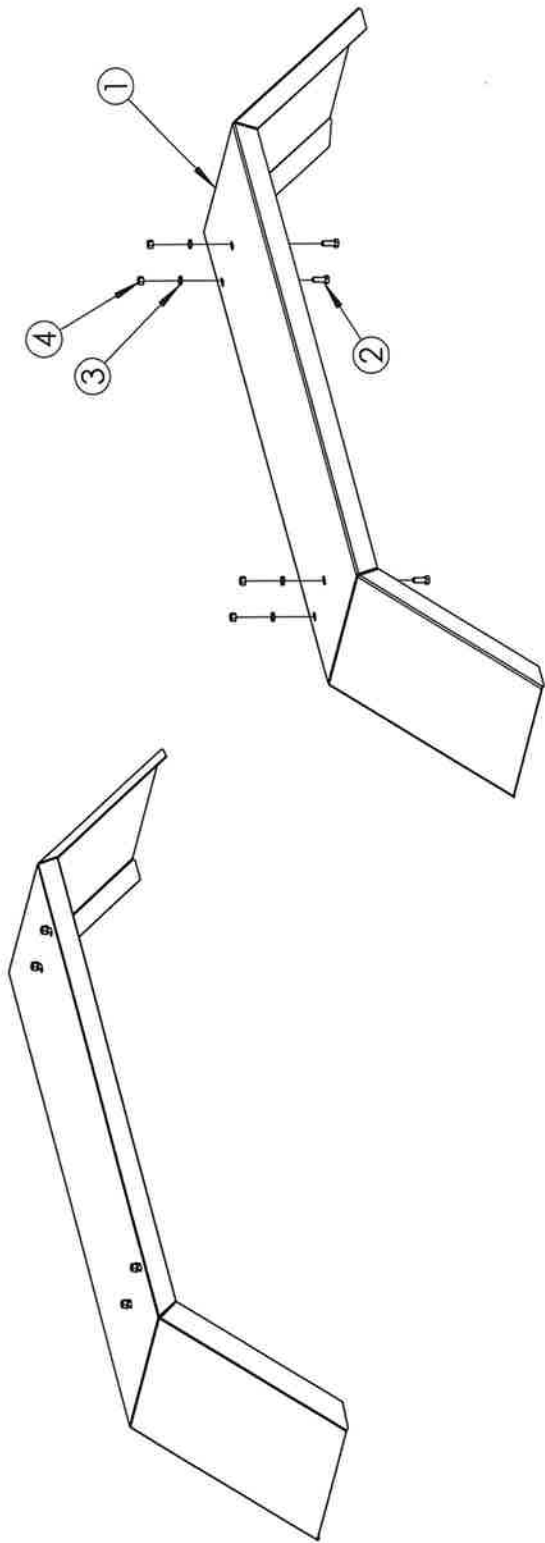


AG111 TANDEM WAGON DECAL APPLICATION LAYOUT



AG111 FENDER PACKAGE
P/N: 47009323

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47004223	FENDER (AG111)	2
2	18056822	BOLT HX CAP G5NCZC 3/8 X 1	8
3	18891200	LOCKWASHER, 3/8 ZC	8
4	18436800	NUT 3/8 NCZC	8

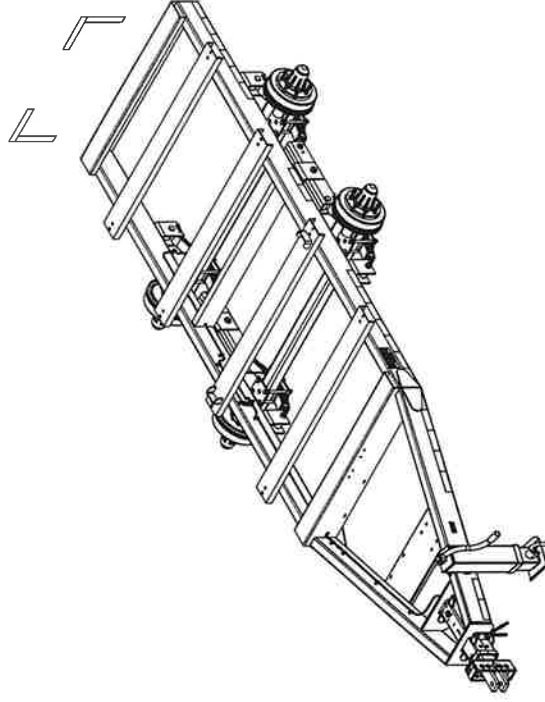


AG116 FLAT FRAME (SHORT)

W/ 4 WHEEL BRAKES

PART LISTING

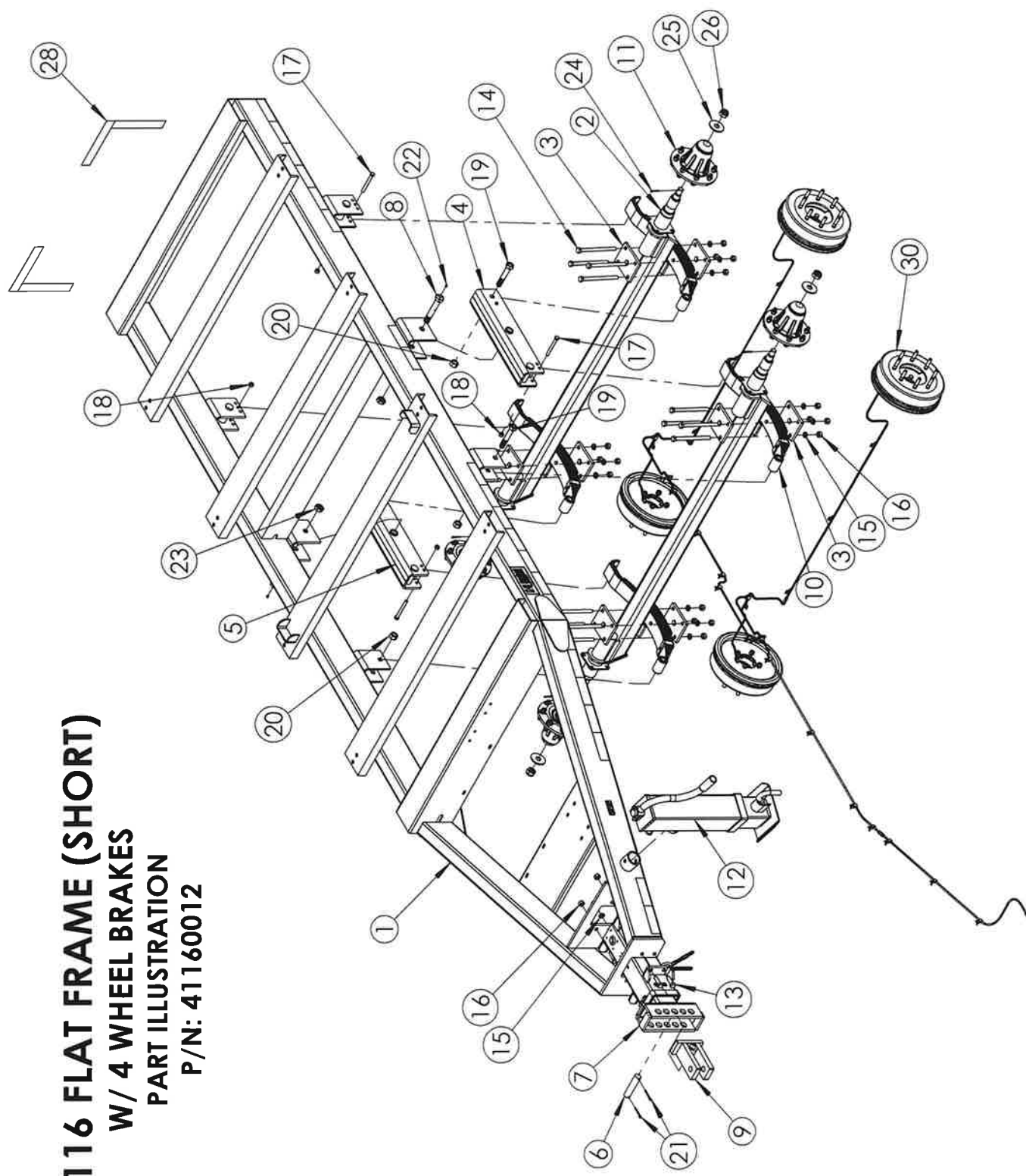
P/N: 41160012



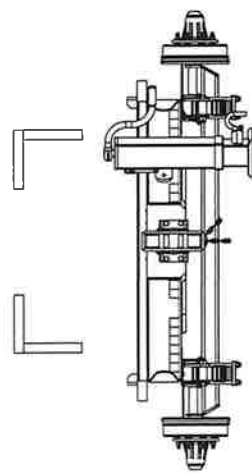
(SPINDLE INCLUDES ITEMS 24 THRU 26)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47019364	TRAILER FRAME (STD. LENGTH)	1
2	47008524	TANDEM AXLE	2
3	47008529	SPRING CLAMP PLATE	8
4	47008551	EQUALIZER, LEFT HAND	1
5	47008550	EQUALIZER, RIGHT HAND	1
6	47001676	CLEVIS PIVOT PIN	1
7	47009379	ACTUATOR POLE W/ END	1
8	47008908	BOLT, SPRING HANGER	2
9	47009523	CLEVIS	1
10	47004202	LEAF SPRING, 6 LEAF	4
11	47009712	HUB ASSEMBLY	4
12	70924	COMPLETE JACK ASSEMBLY	1
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18057976	BOLT HX 5/8 X 8 1/2 GR 5 NC ZC	16
15	18891600	WASHER, LOCK 5/8 ZC	24
16	18417900	NUT, 5/8 NC	24
17	18057450	BOLT, 1/2-13 X 4 1/2 LG	4
18	18457650	NUT CTR LOCK 1/2 ZP ZC	4
19	18057805	BOLT 7/8-9 NC X 5 LG GR5 ZC	4
20	18417800	NUT, HEX 7/8 NC	4
21	18561030	PIN COTTER 1/4 X 2 ZC	2
22	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
23	18449000	NUT HX JAM 1" NCSC	2
24	18560830	COTTER PIN	4
25	18000017	SPINDLE WASHER 1 X .187	4
26	18489100	SLOTTED NUT	4
27	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
28	24-4	REFLECTIVE TAPE PACKAGE	1
30	41160116	4 WHEEL BRAKE PACKAGE	1

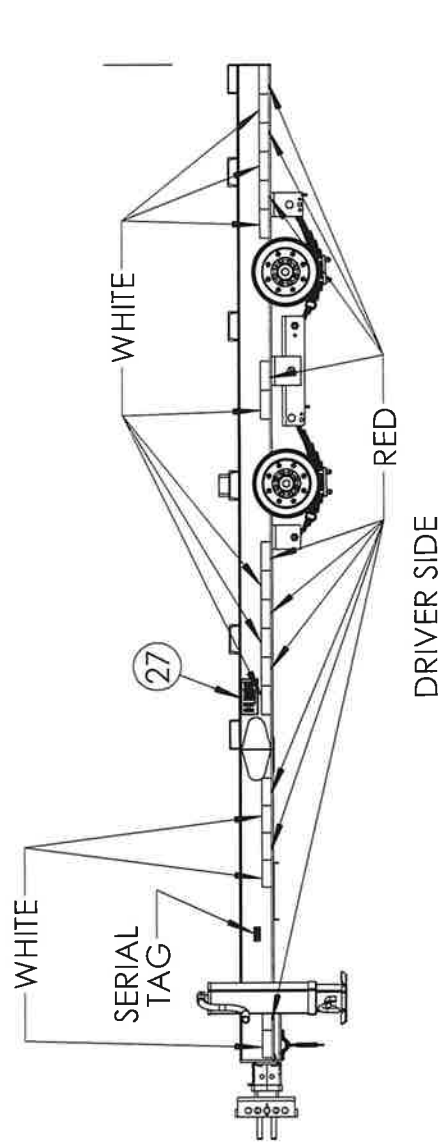
AG116 FLAT FRAME (SHORT) **W/ 4 WHEEL BRAKES** **PART ILLUSTRATION** **P/N: 41160012**



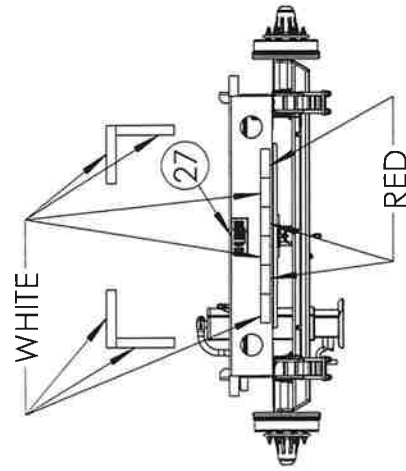
AG116 FLAT FRAME (SHORT) W/ 4 WHEEL BRAKES DECAL LAYOUT



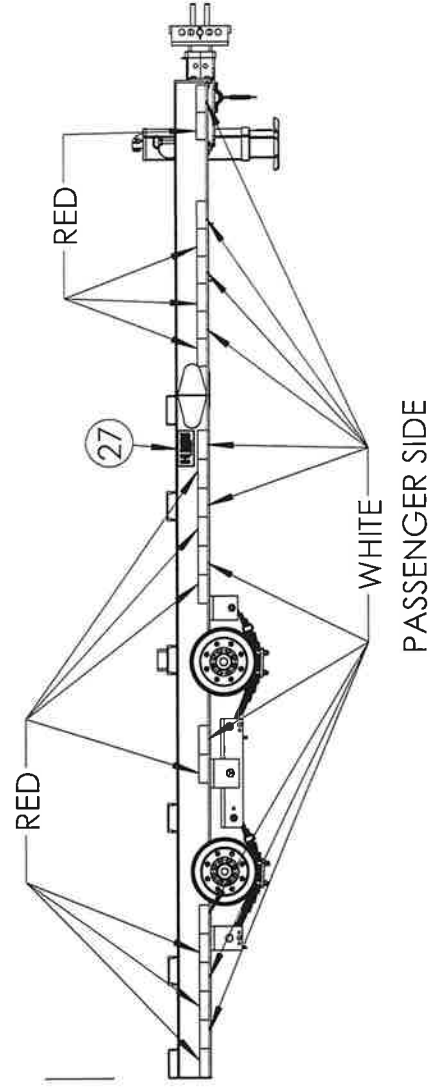
FRONT



DRIVER SIDE



REAR



PASSENGER SIDE

AG116 FLAT FRAME (SHORT)

OPTIONS

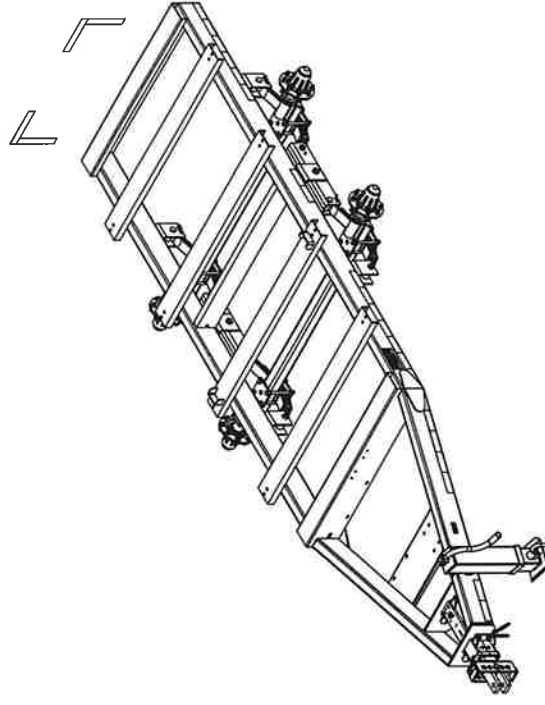
TIRE PACKAGE (OPTIONAL)		
PART NUMBER	DESCRIPTION	QTY
40033	11 X 22.5 HD HWY TIRE/RIM	4
OPTIONS		
20110022	LIGHT PACKAGE - LED 7 WIRE	1
47998845	FENDER PACKAGE	1
47028897	HOOP ASSEMBLY (1685 GAL TANK)	1
47028902	HOOP ASSEMBLY (2000 GAL TANK)	1
41160116C	AG116 2 WHEEL BRKAE PACKAGE	1

AG1116 FLAT FRAME (SHORT)

W/O BRAKES

PART LISTING

P/N: 41160012A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47019364	TRAILER FRAME (STD. LENGTH)	1
2	47008524	TANDEM AXLE	2
3	47008529	SPRING CLAMP PLATE	8
4	47008551	EQUALIZER, LEFT HAND	1
5	47008550	EQUALIZER, RIGHT HAND	1
6	47001676	CLEVIS PIVOT PIN	1
7	47009379	ACTUATOR POLE W/ END	1
8	47008908	BOLT, SPRING HANGER	2
9	47009523	CLEVIS	1
10	47004202	LEAF SPRING, 6 LEAF	4
11	47009712	HUB ASSEMBLY	4
12	70924	COMPLETE JACK ASSEMBLY	1
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18057976	BOLT HX 5/8 X 8 1/2 GR 5 NC ZC	16
15	18891600	WASHER. LOCK 5/8 ZC	24
16	18417900	NUT, 5/8 NC	24
17	18057450	BOLT, 1/2-13 X 4 1/2 LG	4
18	18457650	NUT CTR LOCK 1/2 ZP ZC	4
19	18057805	BOLT 7/8-9 NC X 5 LG GR5 ZC	4
20	18417800	NUT, HEX 7/8 NC	4
21	18561030	PIN COTTER 1/4 X 2 ZC	2
22	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
23	18449000	NUT HX JAM 1" NCSC	2
24	18560830	COTTER PIN	4
25	18000017	SPINDLE WASHER 1 X .187	4
26	18489100	SLOTTED NUT	4
27	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
28	24-4	REFLECTIVE TAPE PACKAGE	1

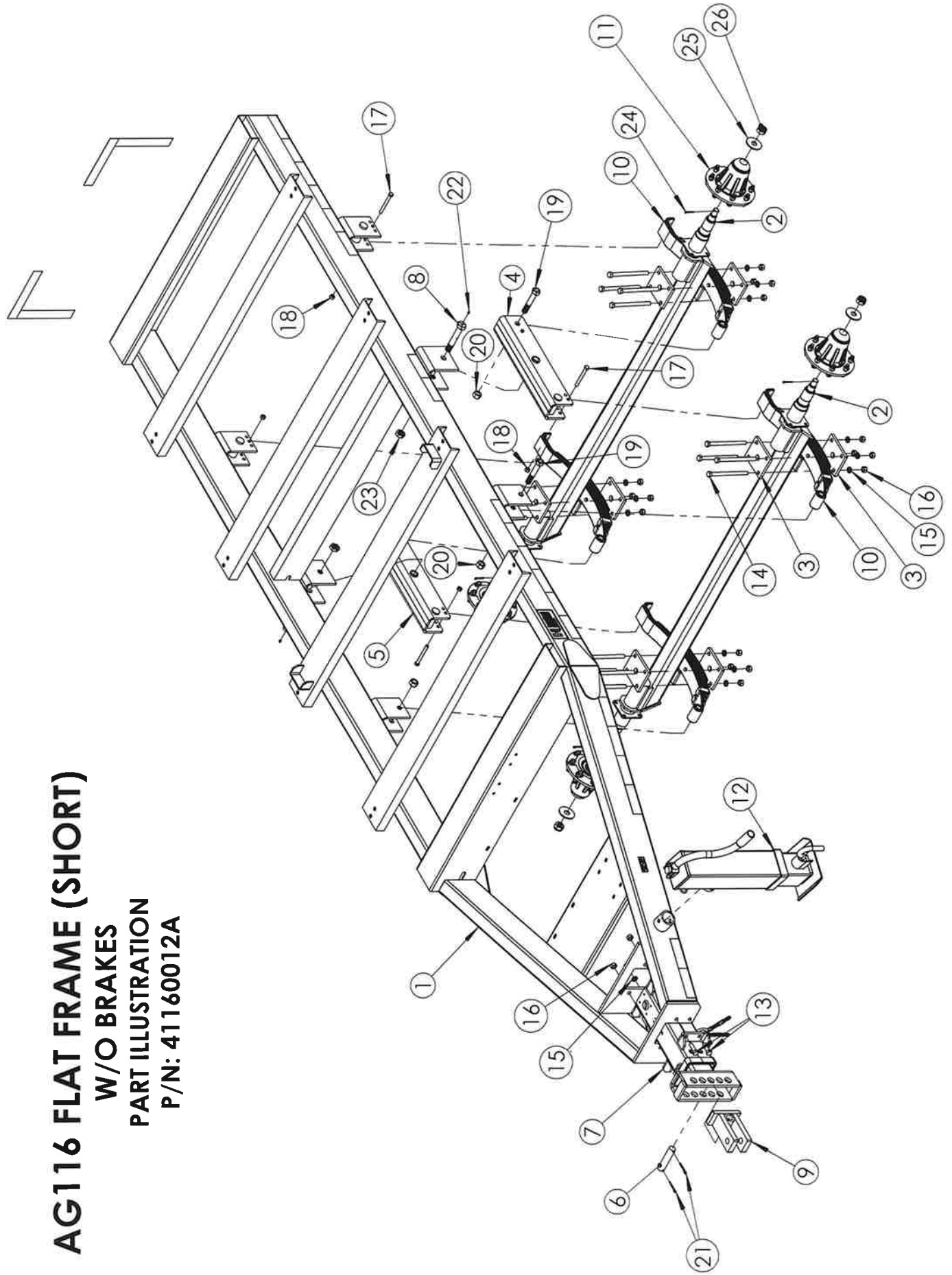
(SPINDLE INCLUDES ITEMS 24 THRU 26)

AG116 FLAT FRAME (SHORT)

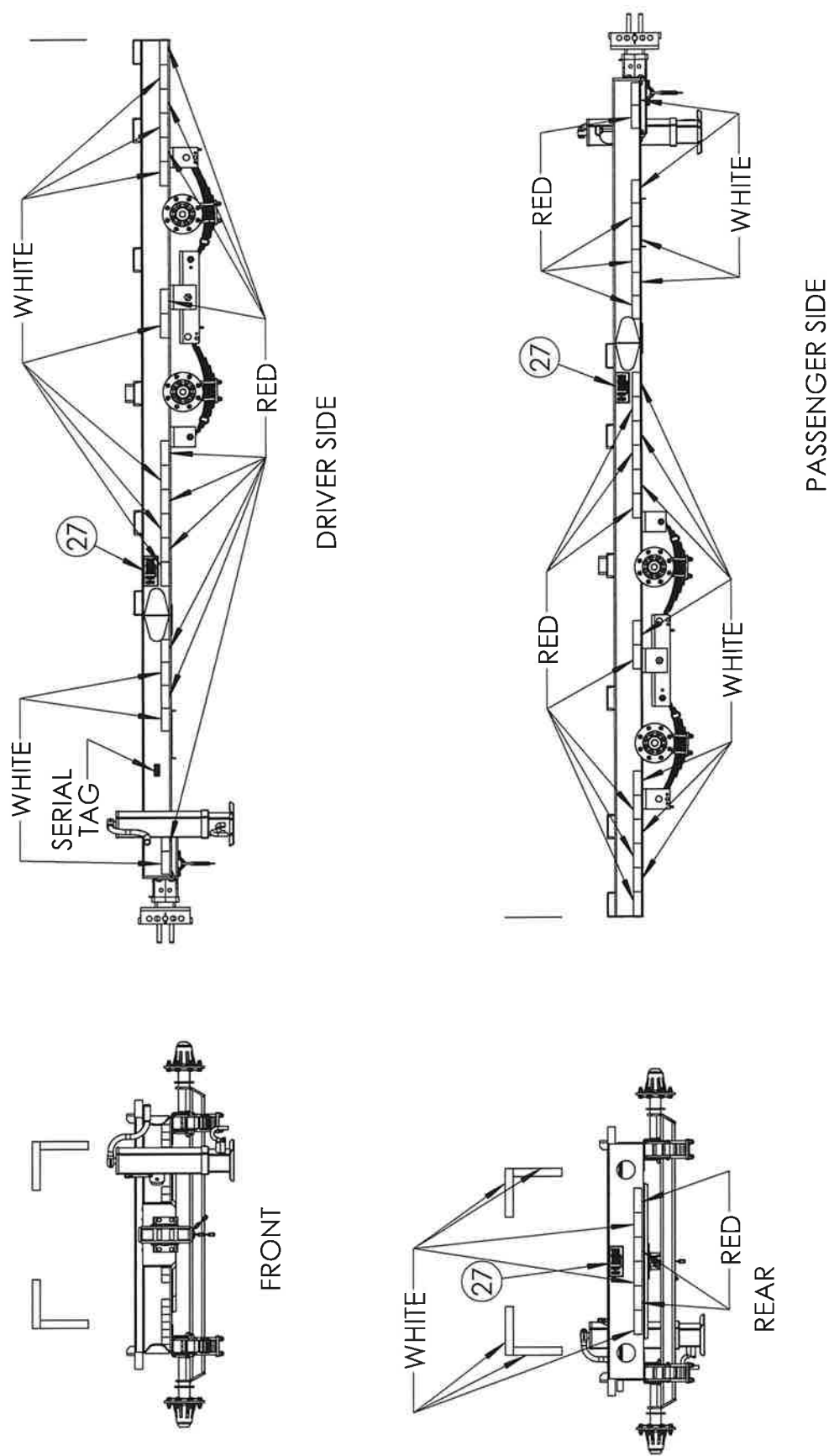
W/O BRAKES

PART ILLUSTRATION

P/N: 41160012A



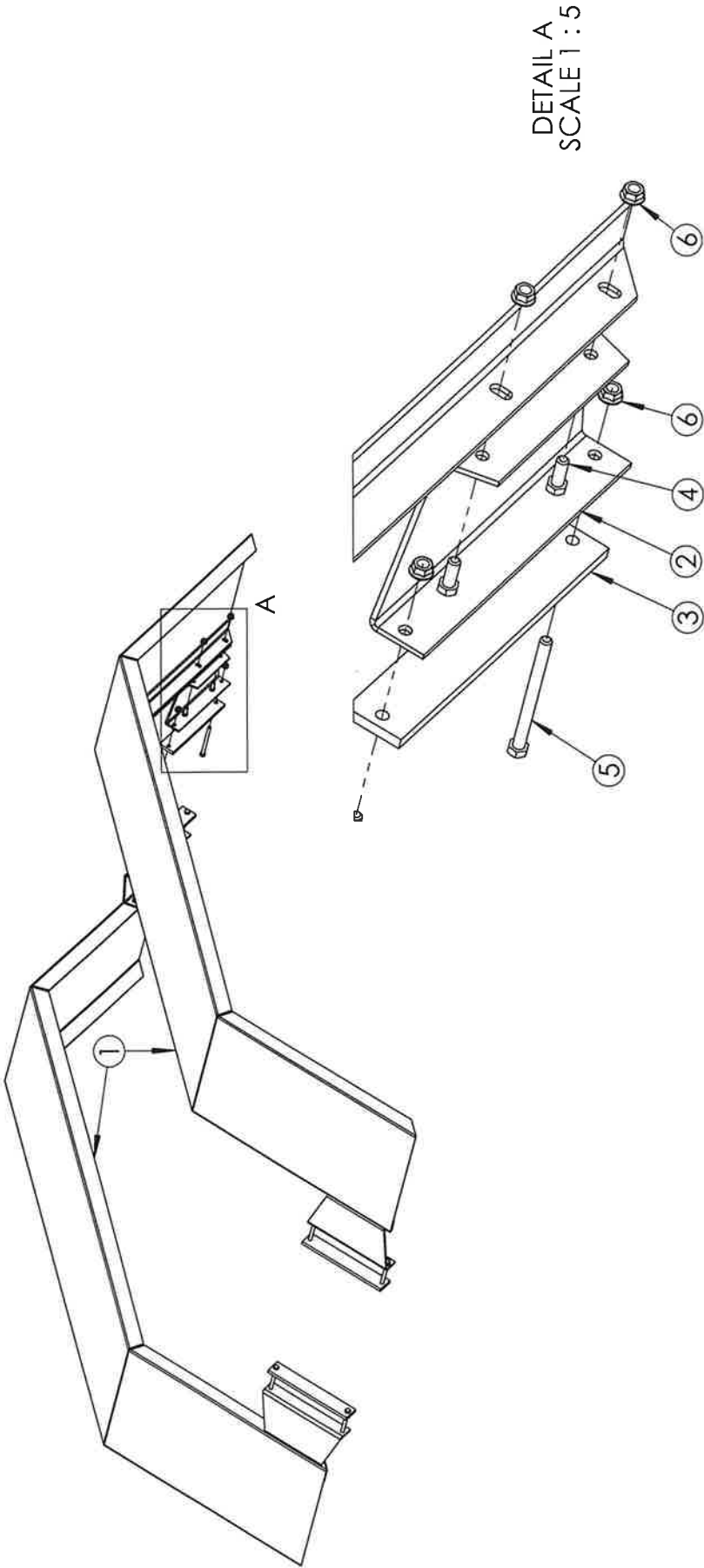
AG116 FLAT FRAME (SHORT) **W/O BRAKES** **DECAL PLACEMENT**



AG1116 FLAT FRAME FENDERS

P/N: 47998845

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008845	FENDER WELDMENT	2
2	47009367	STAND-OFF BRACKET, FENDER	4
3	47019368	CLAMP PLATE, FENDER	4
4	18056822	BOLT HX CAP G5NCZC 3/8 X 1	8
5	18056852	BOLT, 3/8-16 X 4 1/2 LG ZC	8
6	18496800	FLANGE NUT, 3/8-16 NC	16



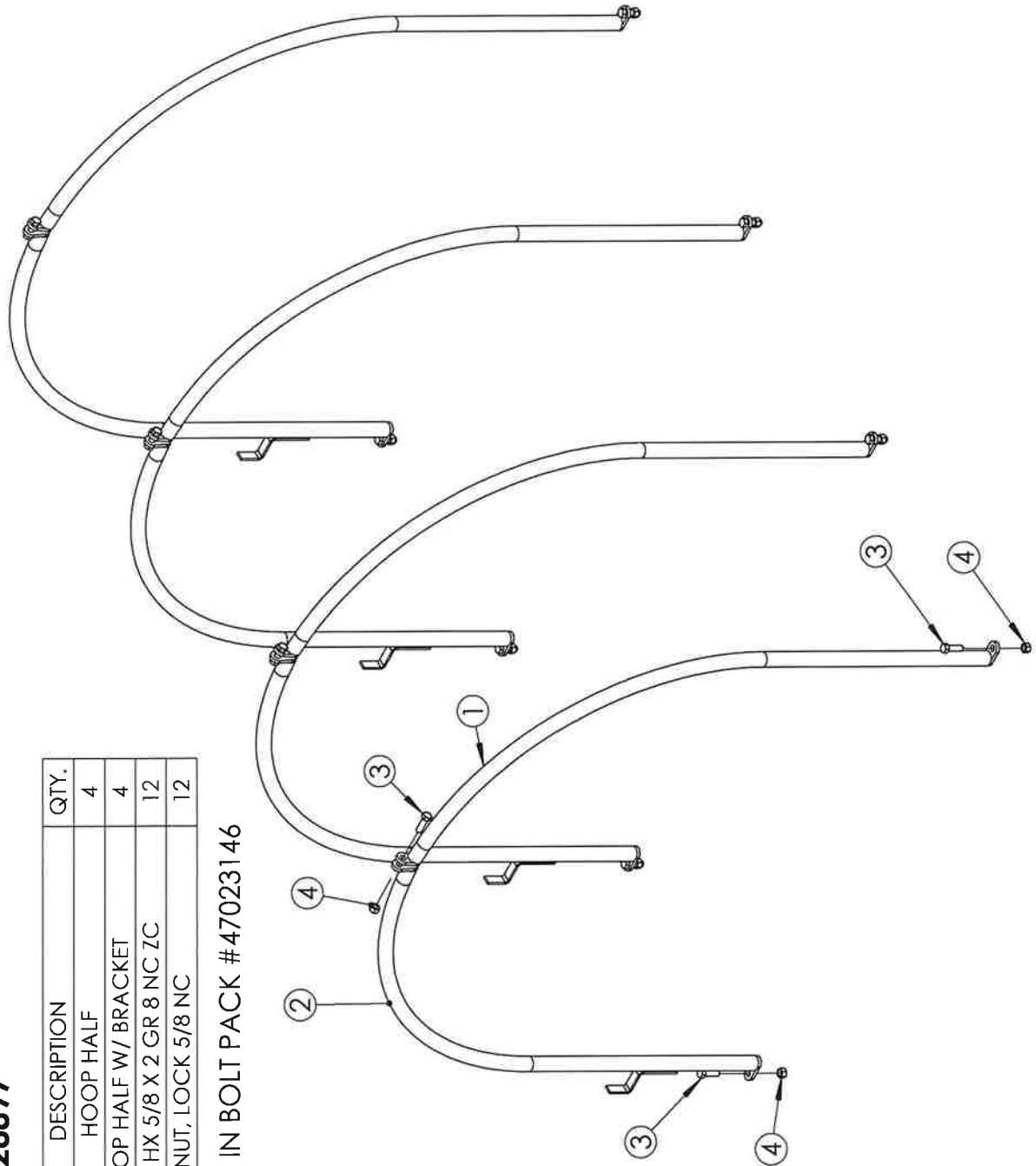
AG116 HOOP ASSEMBLY

FLAT BOTTOM (1685 GAL)

P/N: 47028897

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008897	HOOP HALF	4
2	47008898	HOOP HALF W/ BRACKET	4
3	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	12
4	18457900	NUT, LOCK 5/8 NC	12

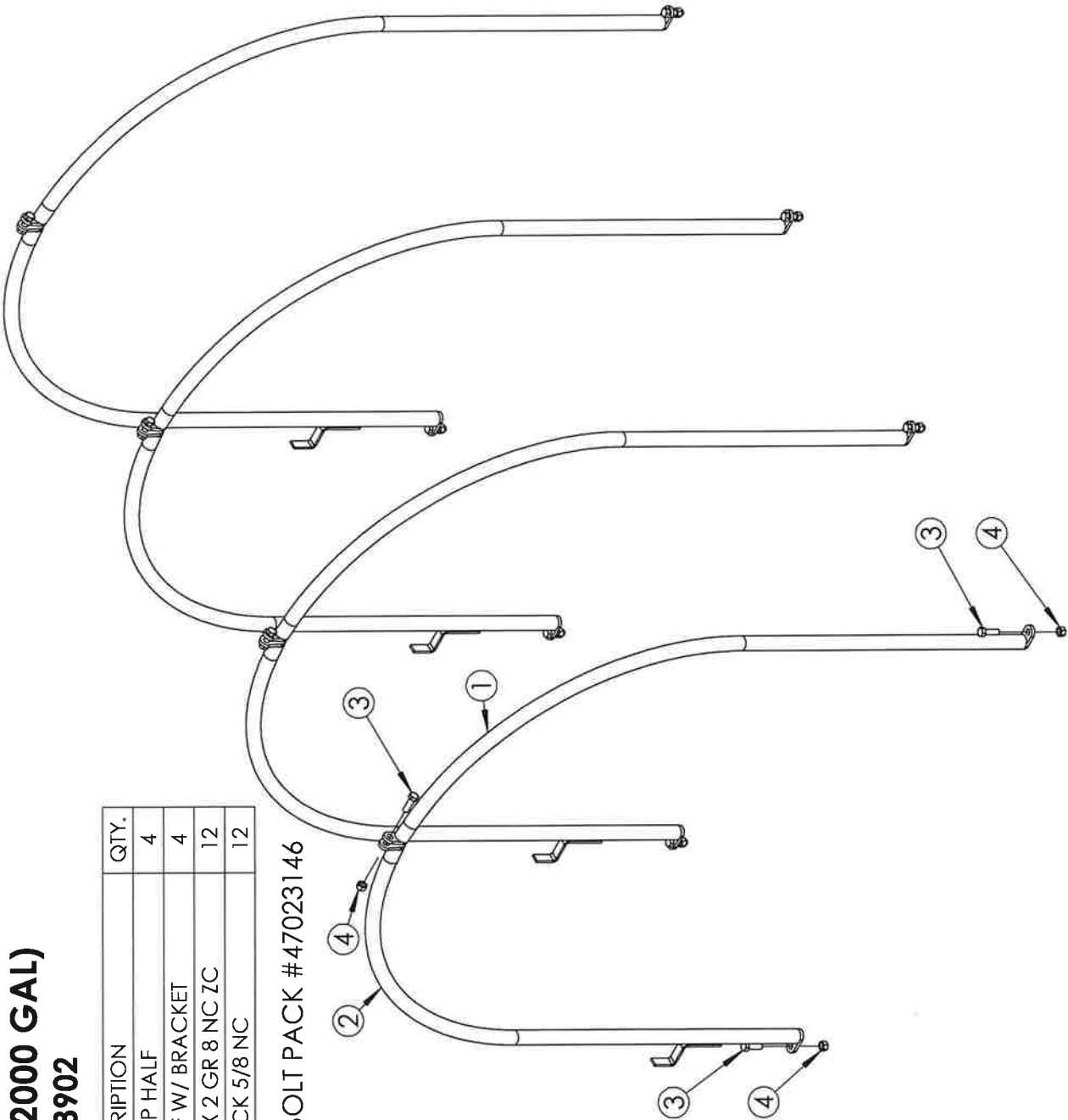
ITEMS 3 & 4 ARE CONTAINED IN BOLT PACK #47023146



AG116 HOOP ASSEMBLY **FLAT BOTTOM (2000 GAL)** **P/N: 47028902**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008902	HOOP HALF	4
2	47008903	HOOP HALF W/ BRACKET	4
3	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	12
4	18457900	NUT, LOCK 5/8 NC	12

ITEMS 3 & 4 ARE CONTAINED IN BOLT PACK #47023146

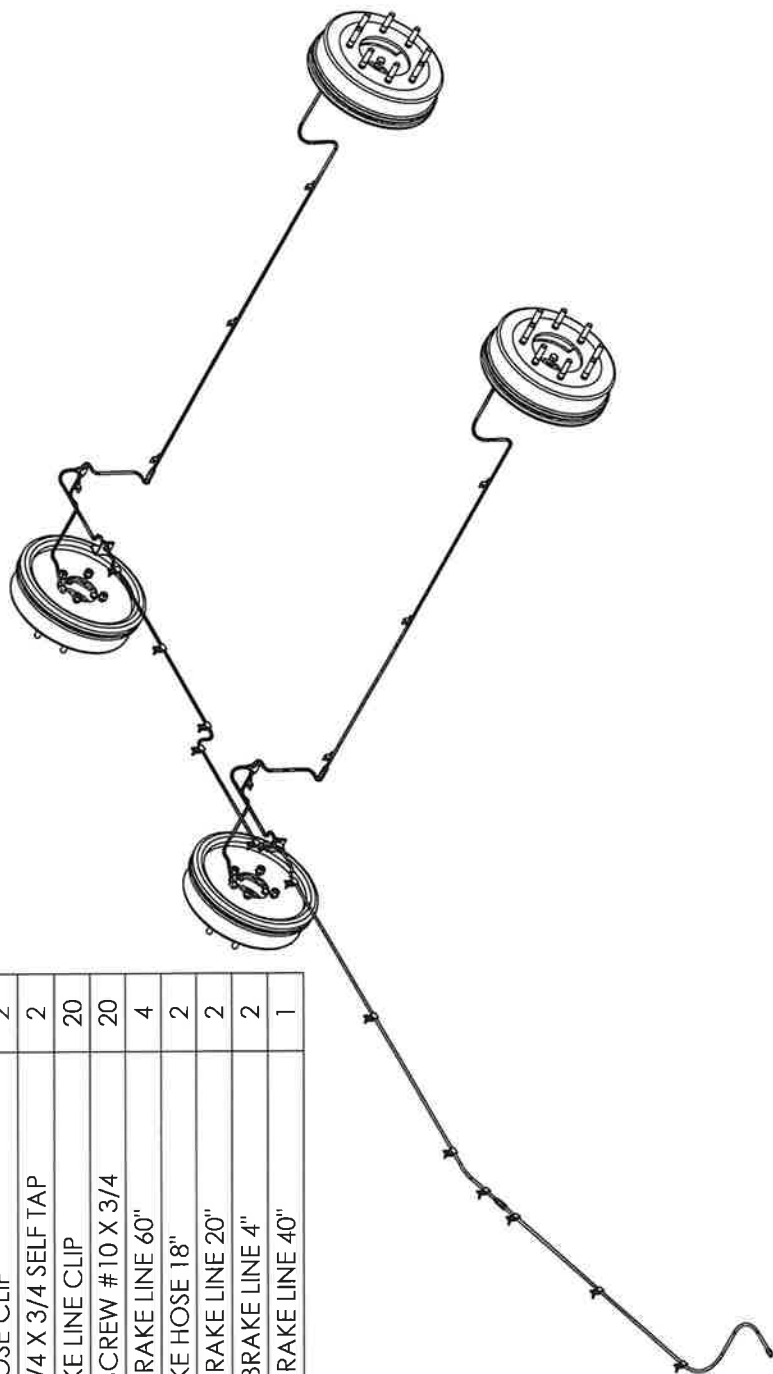


AG116 4 WHEEL BRAKE PACKAGE

PART LISTING

P/N: 41160116

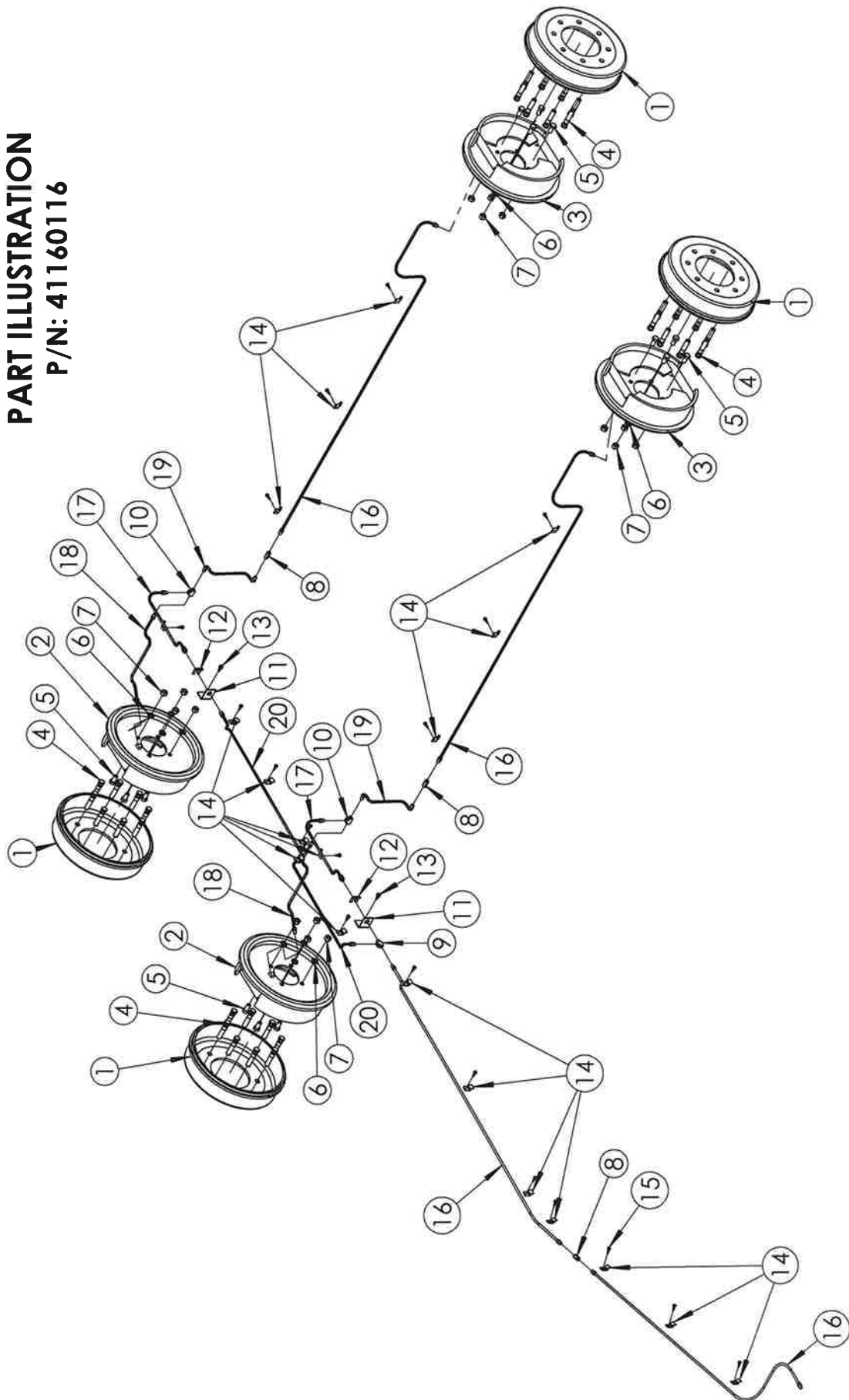
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47005650	BRAKE DRUM	4
2	47005651	BRAKE CLUSTER (13") RH	2
3	47005652	BRAKE CLUSTER (13") LH	2
4	71954	WHEEL STUD LONG	32
5	18057522	BOLT 1/2-20 X 1 ZC	16
6	18891400	WASHER, 1/2 LOCK ZC	16
7	18437500	NUT, HEX 1/2-20	16
8	47005660	UNION, 3/16	3
9	47005680	TEE, F X F X M	1
10	47005685	UNION TEE	2
11	47005663	HOSE BRACKET	2
12	47005664	HOSE CLIP	2
13	18715718	SCREW, 1/4 X 3/4 SELF TAP	2
14	47005666	BRAKE LINE CLIP	20
15	18721018	SELF TAP SCREW #10 X 3/4	20
16	47005688	TUBE, BRAKE LINE 60"	4
17	47005665	BRAKE HOSE 18"	2
18	47005692	TUBE, BRAKE LINE 20"	2
19	47005682	TUBE, BRAKE LINE 4"	2
20	47005694	TUBE, BRAKE LINE 40"	1



AG116 4 WHEEL BRAKE PACKAGE

PART ILLUSTRATION

P/N: 41160116

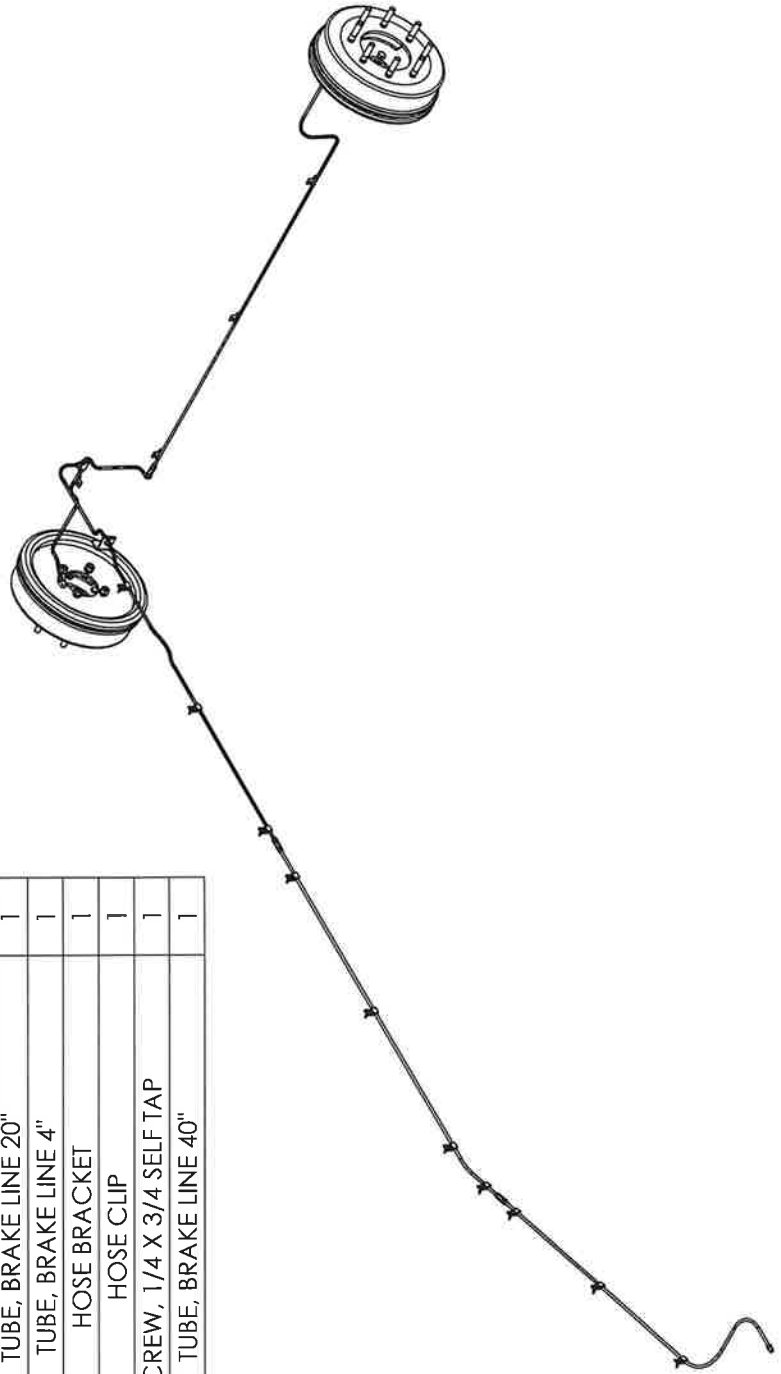


AG116 2 WHEEL BRAKE PACKAGE

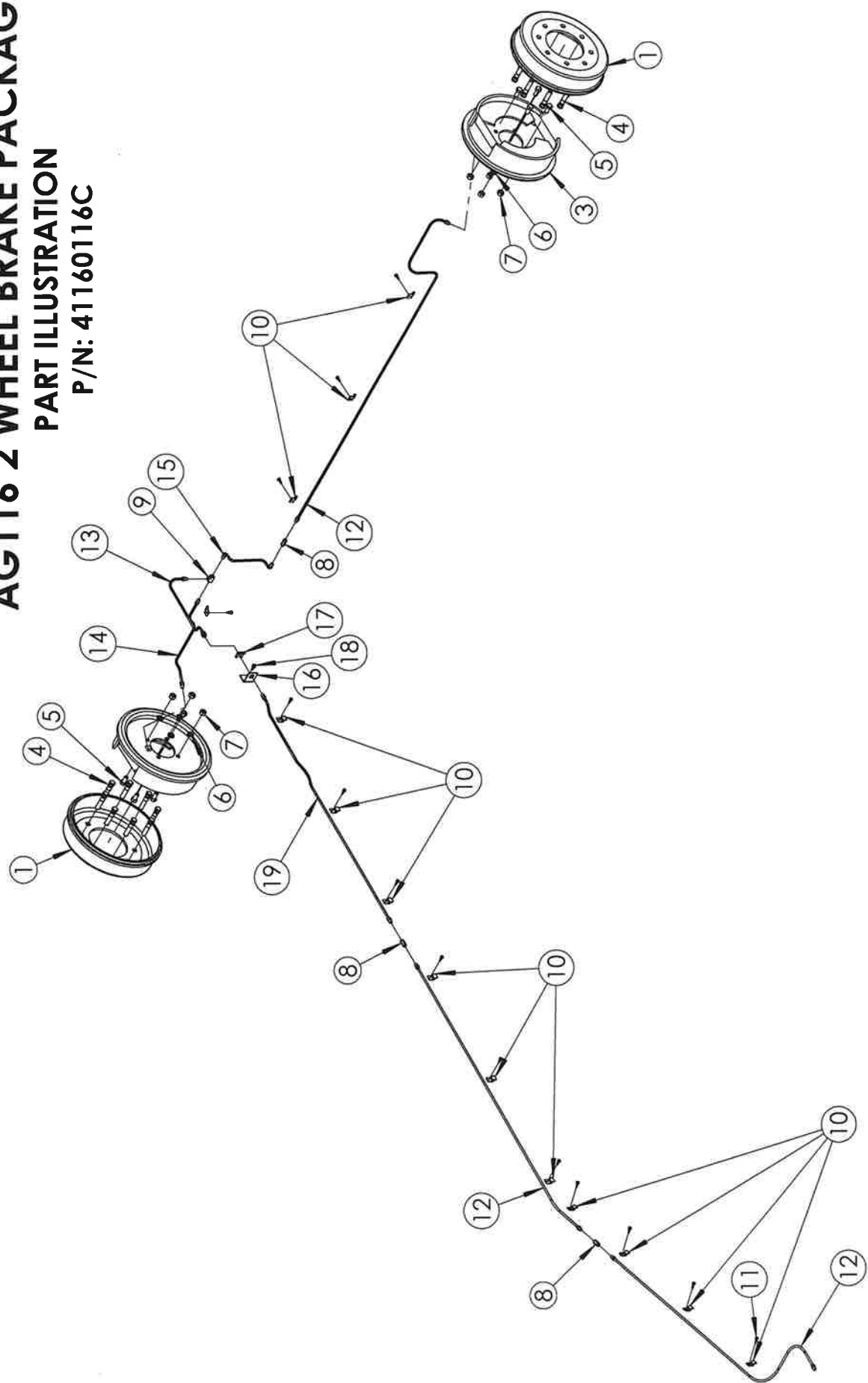
PART LISTING

P/N: 41160116C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47005650	BRAKE DRUM	2
2	47005651	BRAKE CLUSTER (13") RH	1
3	47005652	BRAKE CLUSTER (13") LH	1
4	71954	WHEEL STUD LONG	16
5	18057522	BOLT 1/2-20 X 1 ZC	8
6	18891400	WASHER, 1/2 LOCK ZC	8
7	18437500	NUT, HEX 1/2-20	8
8	47005660	UNION, 3/16	3
9	47005685	UNION TEE	1
10	47005666	BRAKE LINE CLIP	14
11	18721018	SELF TAP SCREW #10 X 3/4	14
12	47005688	TUBE, BRAKE LINE 60"	3
13	47005665	BRAKE HOSE 18"	1
14	47005692	TUBE, BRAKE LINE 20"	1
15	47005682	TUBE, BRAKE LINE 4"	1
16	47005663	HOSE BRACKET	1
17	47005664	HOSE CLIP	1
18	18715718	SCREW, 1/4 X 3/4 SELF TAP	1
19	47005694	TUBE, BRAKE LINE 40"	1



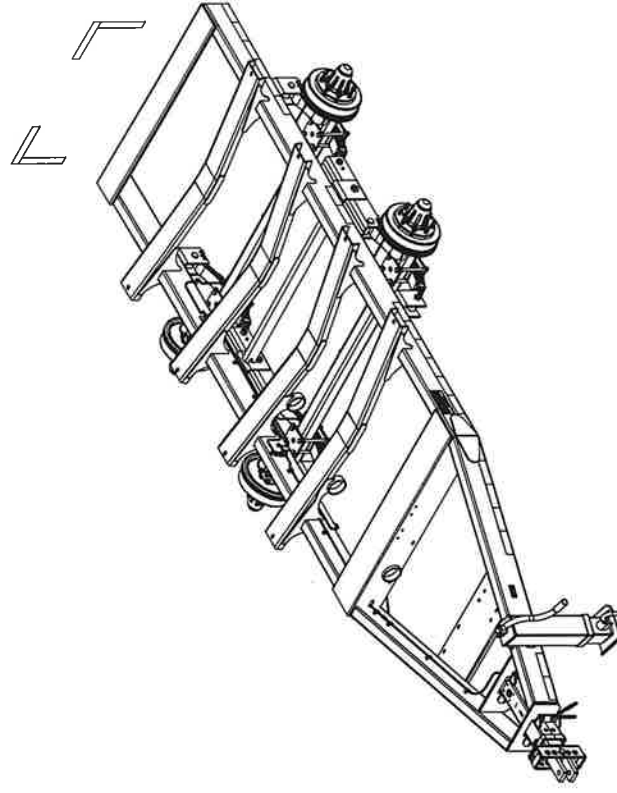
AG116 2 WHEEL BRAKE PACKAGE **PART ILLUSTRATION** **P/N: 41160116C**



AG116 DRAINABLE (SHORT)

PART LISTING

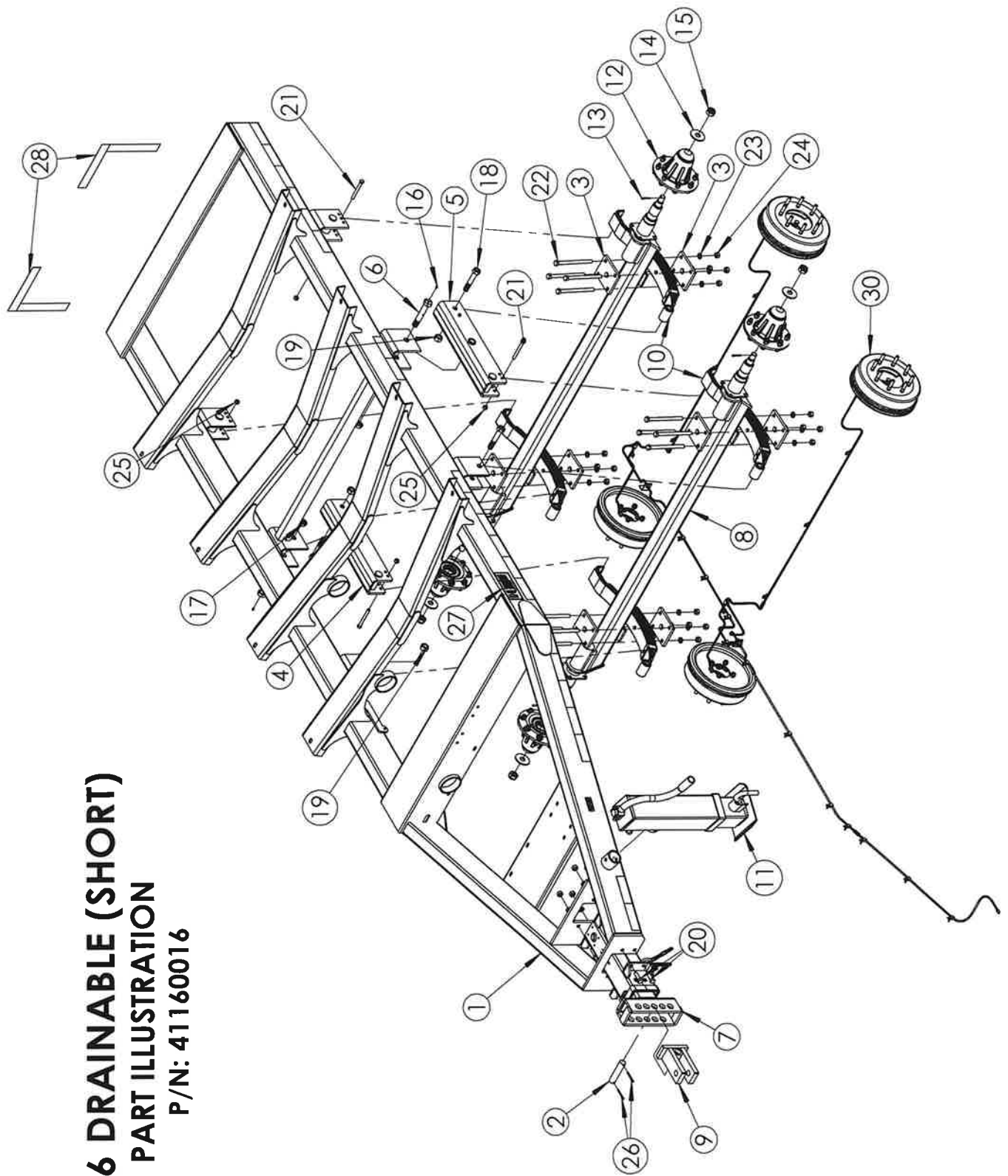
P/N: 41160016



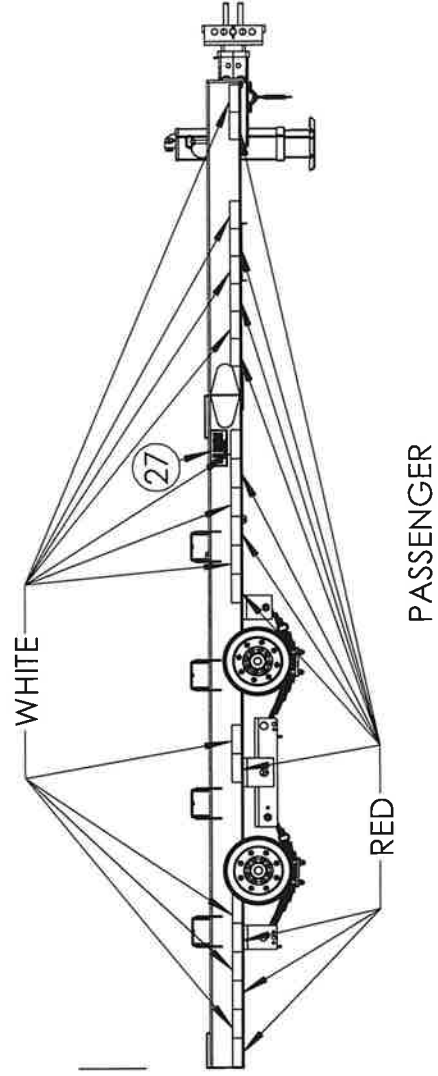
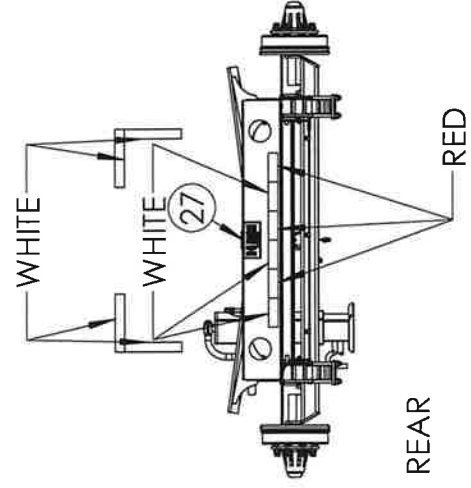
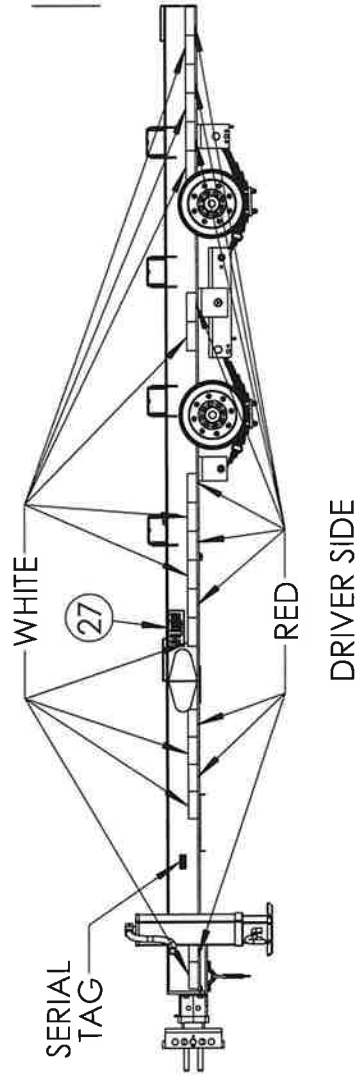
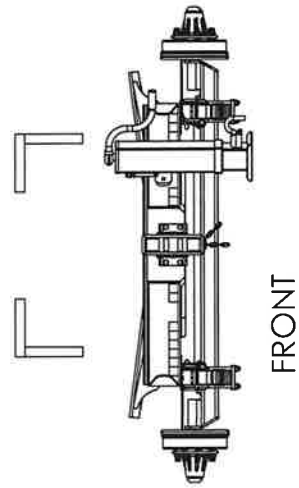
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47003713	FRAME, 1625 CHANNEL	1
2	47001676	CLEVIS PIVOT PIN	1
3	47008529	SPRING CLAMP PLATE	8
4	47008550	EQUALIZER, RIGHT HAND	1
5	47008551	EQUALIZER, LEFT HAND	1
6	47008908	BOLT, SPRING HANGER	2
7	47009379	ACTUATOR POLE W/ END	1
8	47007882	TANDEM AXLE	2
9	47009523	CLEVIS	1
10	47004202	LEAF SPRING, 6 LEAF	4
11	70924	COMPLETE JACK ASSEMBLY	1
12	47009712	HUB ASSEMBLY	4
13	18560830	COTTER PIN	4
14	18000017	SPINDLE WASHER 1 X .187	4
15	18489100	SLOTTED NUT	4
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18057805	BOLT 7/8-9 NC X 5 LG GR5 ZC	4
19	18417800	NUT, HEX 7/8 NC	4
20	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
21	18057450	BOLT, 1/2-13 X 4 1/2 LG	4
22	18057976	BOLT HX 5/8 X 8 1/2 GR 5 NC ZC	16
23	18891600	WASHER, LOCK 5/8 ZC	24
24	18417900	NUT, 5/8 NC	24
25	18457650	NUT CTR LOCK 1/2 ZP ZC	4
26	18561030	PIN COTTER 1/4 X 2 ZC	2
27	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
28	24-4	REFLECTIVE TAPE PACKAGE	1
30	41160116	4 WHEEL BRAKE PACKAGE	1

(SPINDLE INCLUDES ITEMS 13 THRU 15)

AG116 DRAINABLE (SHORT) **PART ILLUSTRATION** **P/N: 41160016**



AG116 DRAINABLE (SHORT) DECAL LAYOUT



AG116 DRAINABLE (SHORT) OPTIONS

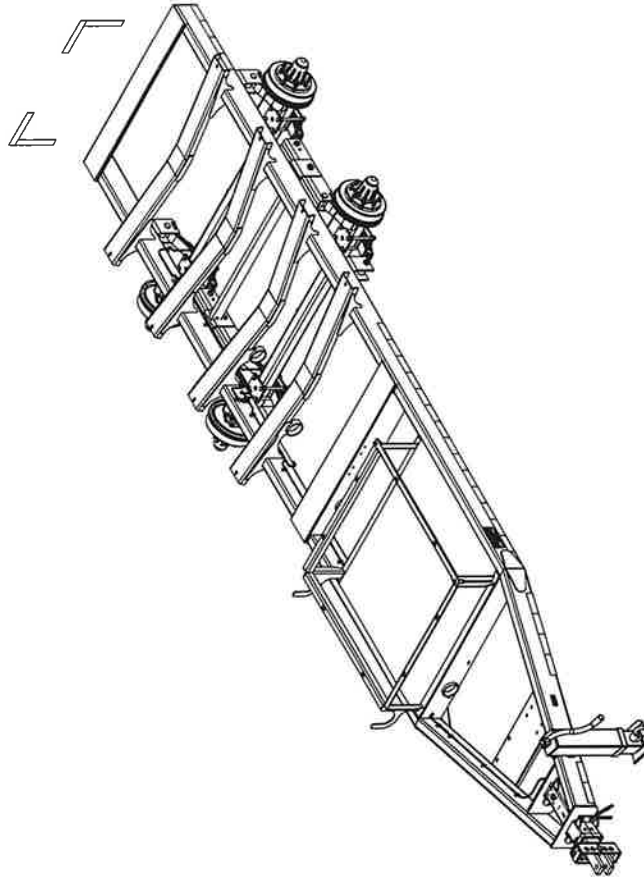
TIRE PACKAGE (OPTIONAL)		
PART NUMBER	DESCRIPTION	QTY
40028	11 X 22.5 NEW HWY TIRE/RIM	4
40033	11 X 22.5 HD HWY TIRE/RIM	4
40039	USED 385 TIRE W/ NEW RIM	4
OPTIONS		
20110022	LIGHT PACKAGE - LED 7 WIRE	1
*45800009	COMPLETE HOOP SET FOR 1615 LEG TANK	1
*45800011	COMPLETE HOOP SET FOR 2015 DRAINABLE	1
47998845	FENDER SET AG116 16" COMPLETE	1
47997877	FENDER SET AG116 12" COMPLETE	1

(*HOOP SETS ARE PURCHASED COMPLETE)

AG116 DRAINABLE (LONG)

PART LISTING

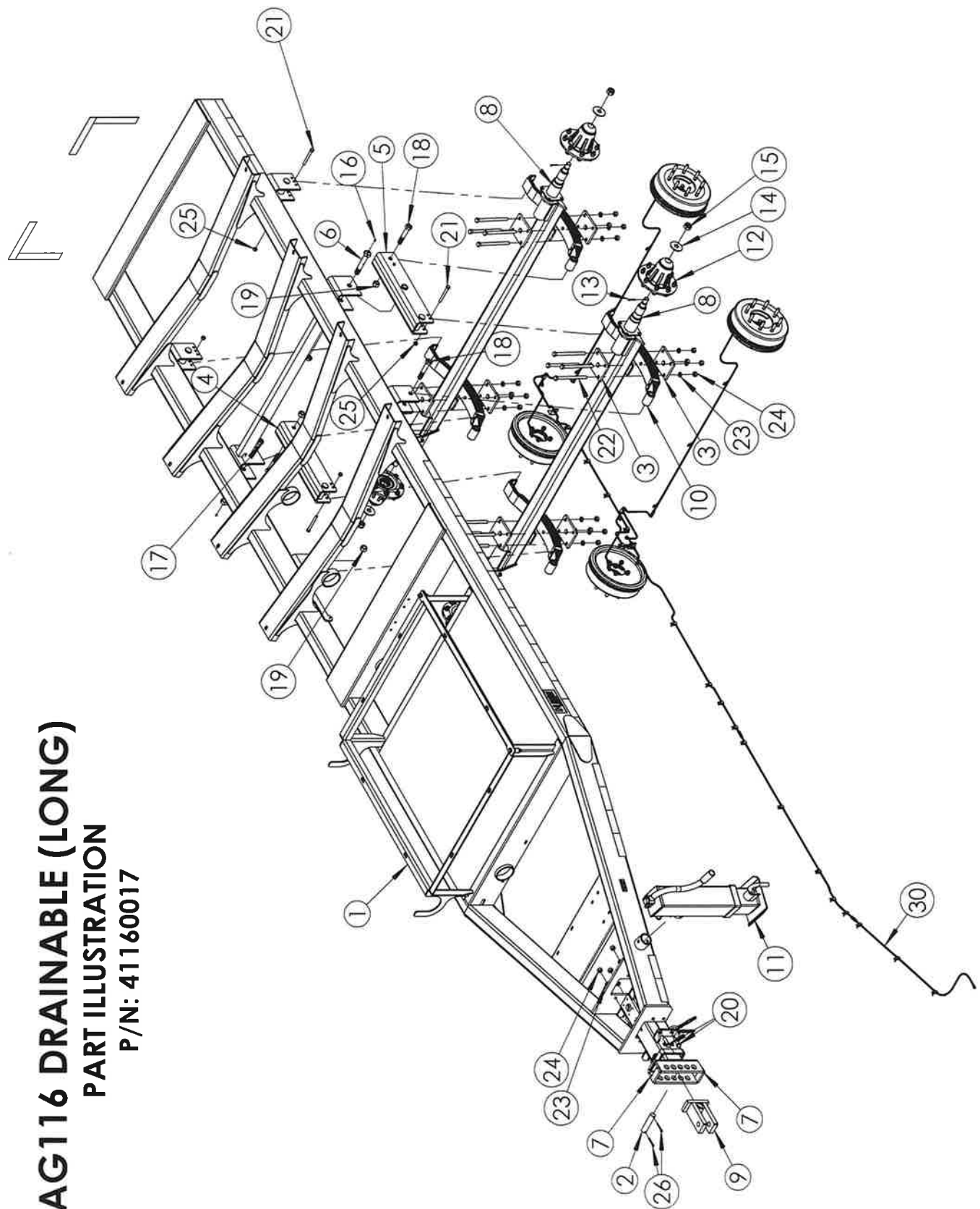
P/N: 41160017



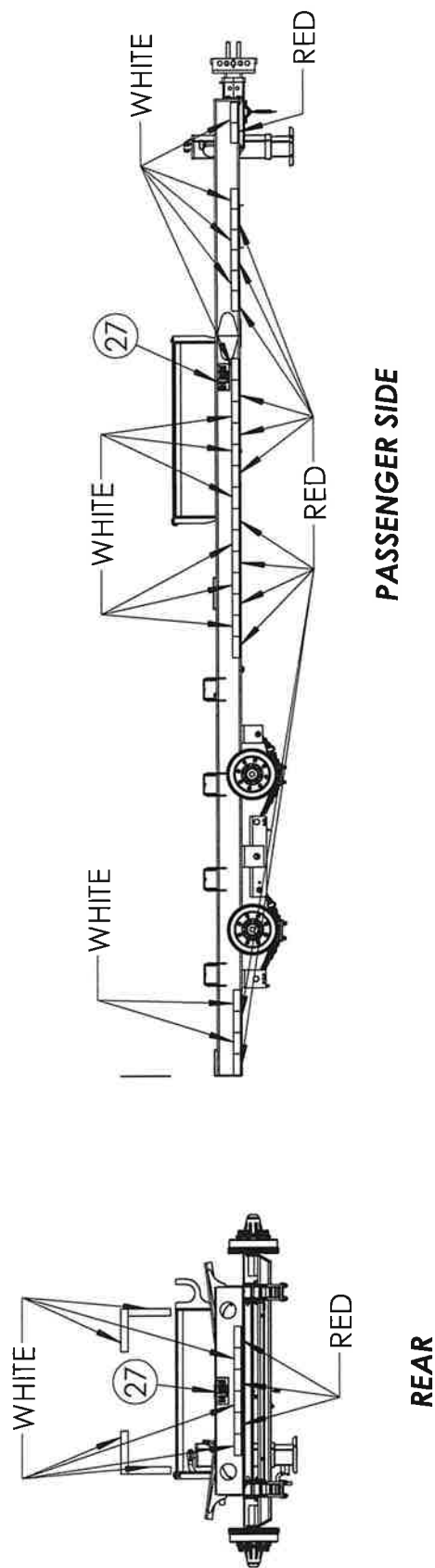
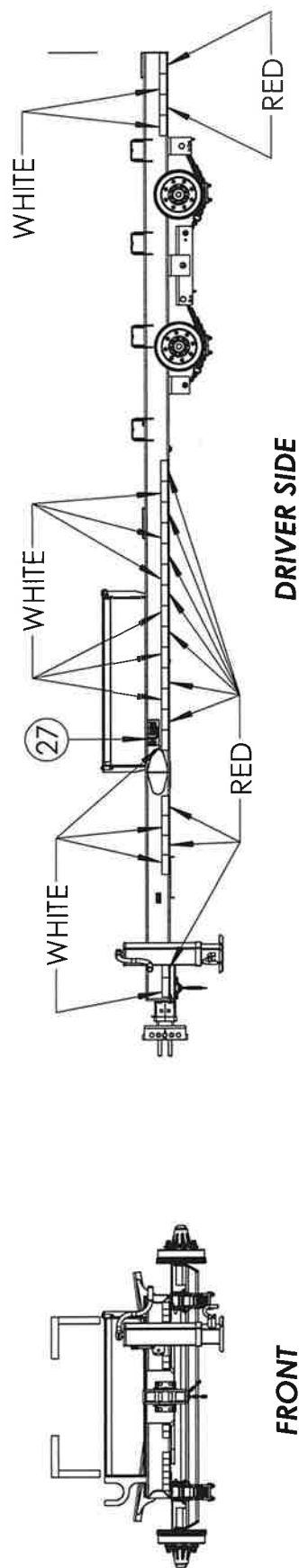
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	70852	EXT. TRAILER, 1625 TANK	1
2	47001676	CLEVIS PIVOT PIN	1
3	47008529	SPRING CLAMP PLATE	8
4	47008550	EQUALIZER, RIGHT HAND	1
5	47008551	EQUALIZER, LEFT HAND	1
6	47008908	BOLT, SPRING HANGER	2
7	47009379	ACTUATOR POLE W/ END	1
8	47007882	TANDEM AXLE	2
9	47009523	CLEVIS	1
10	47004202	LEAF SPRING, 6 LEAF	4
11	70924	COMPLETE JACK ASSEMBLY	1
12	47009712	HUB ASSEMBLY	4
13	18560830	COTTER PIN	4
14	18000017	SPINDLE WASHER 1 X .187	4
15	18489100	SLOTTED NUT	4
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18057805	BOLT 7/8-9 NC X 5 LG GR5 ZC	4
19	18417800	NUT, HEX 7/8 NC	4
20	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
21	18057450	BOLT, 1/2-13 X 4 1/2 LG	4
22	18057976	BOLT HX 5/8 X 8 1/2 GR 5 NC ZC	16
23	18891600	WASHER. LOCK 5/8 ZC	24
24	18417900	NUT, 5/8 NC	24
25	18457650	NUT CTR LOCK 1/2 ZP ZC	4
26	18561030	PIN COTTER 1/4 X 2 ZC	2
27	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
28	28-4	REFLECTIVE TAPE PACKAGE	1
30	41160116A	4 WHEEL BRAKE PACKAGE	1

(SPINDLE INCLUDES ITEMS 13 THRU 15)

AG116 DRAINABLE (LONG) PART ILLUSTRATION P/N: 41160017



AG116 DRAINABLE (LONG) DECAL LAYOUT



AG116 DRAINABLE (LONG) OPTIONS

TIRE PACKAGE (OPTIONAL)		
PART NUMBER	DESCRIPTION	QTY
40028	11 X 22.5 NEW HWY TIRE/RIM	4
40033	11 X 22.5 HD HWY TIRE/RIM	4
40039	USED 385 TIRE W/ NEW RIM	4
OPTIONS		
20110022	LIGHT PACKAGE - LED 7 WIRE	1
* 45800009	COMPLETE HOOP SET FOR 1615 LEG TANK	1
* 45800011	COMPLETE HOOP SET FOR 2015 DRAINABLE	1
47998845	FENDER SET AG116 16" COMPLETE	1
47997877	FENDER SET AG116 12" COMPLETE	1

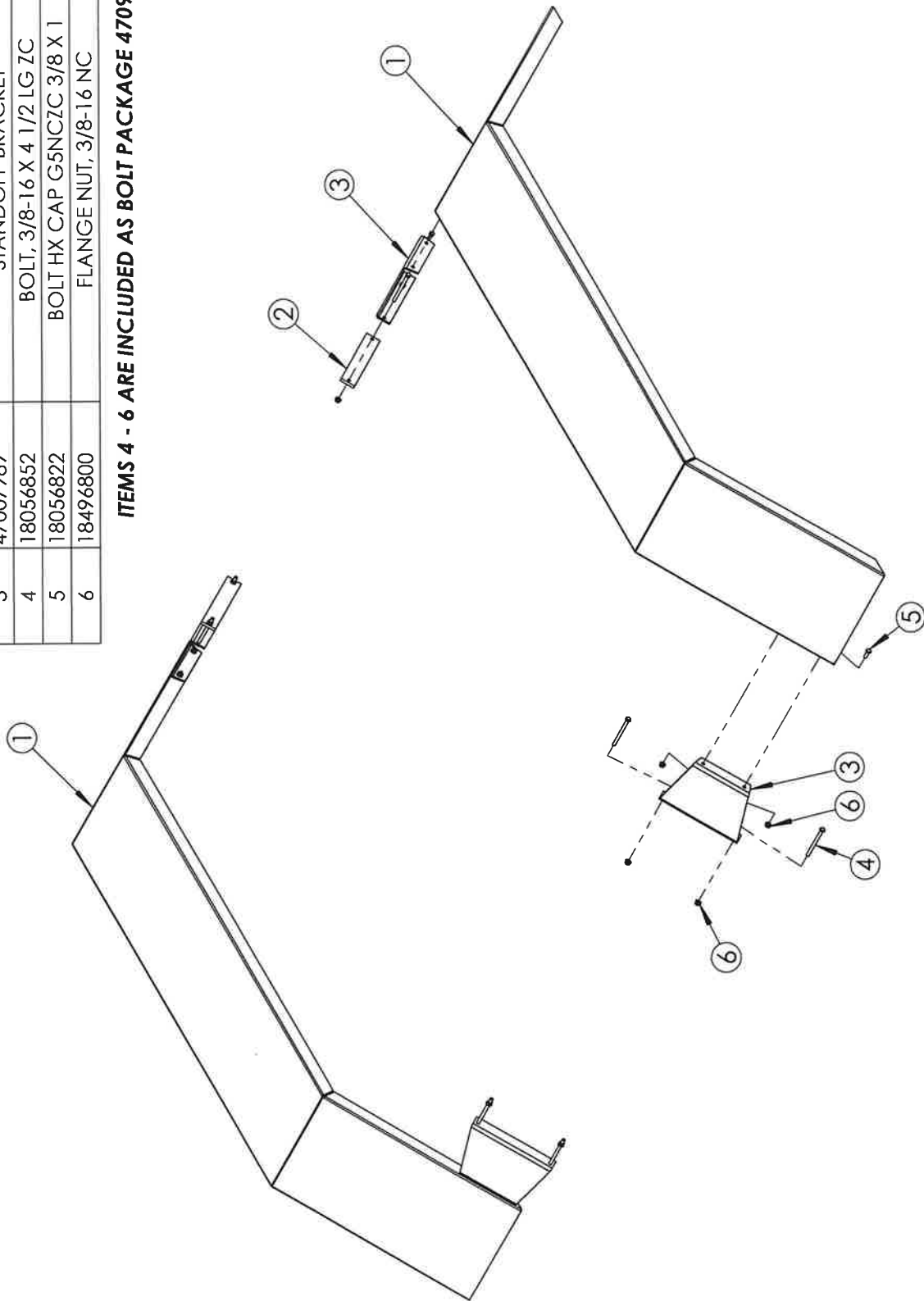
(*HOOP SETS ARE PURCHASED COMPLETE)

AG116 DRAINABLE FENDER SET (16")

P/N: 47988845

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008845	FENDER WELDMENT	2
2	47019368	CLAMP PLATE, FENDER	2
3	47007989	STANDOFF BRACKET	4
4	18056852	BOLT, 3/8-16 X 4 1/2 LG ZC	8
5	18056822	BOLT HX CAP G5NCZC 3/8 X 1	8
6	18496800	FLANGE NUT, 3/8-16 NC	16

ITEMS 4 - 6 ARE INCLUDED AS BOLT PACKAGE 47098845

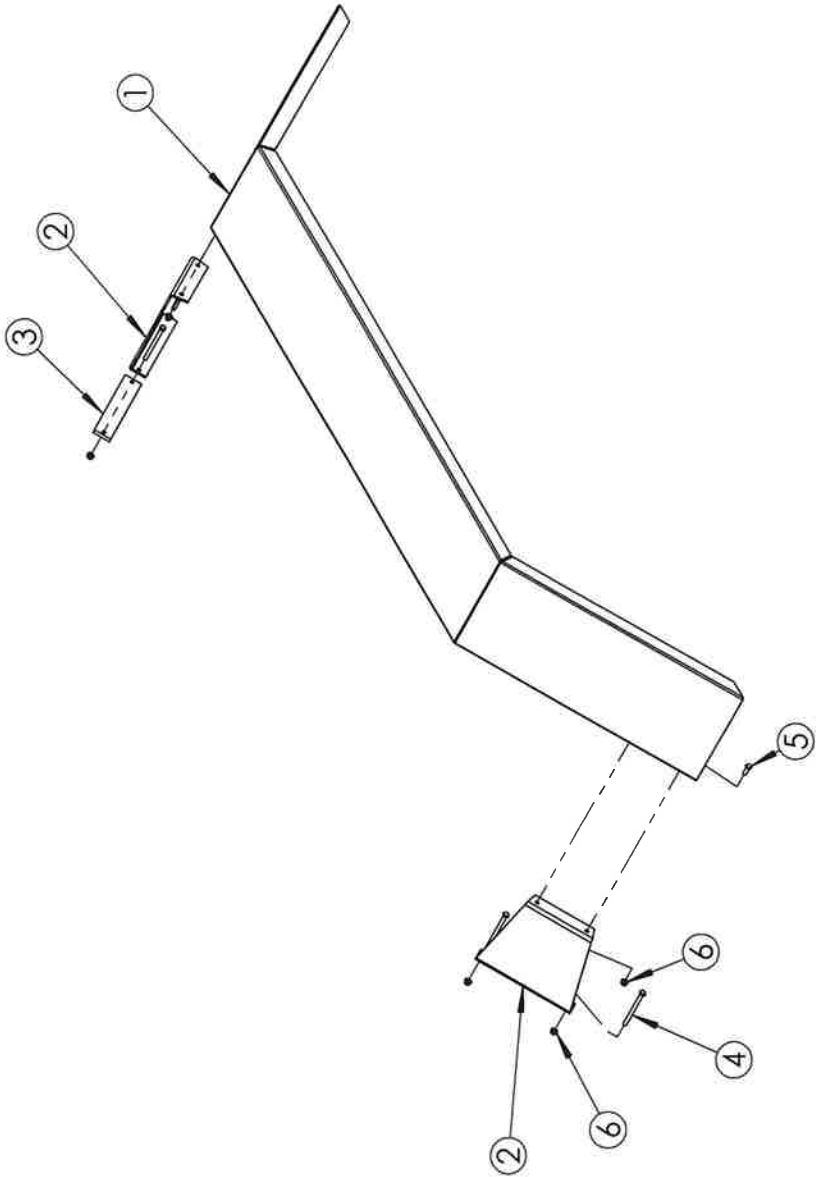
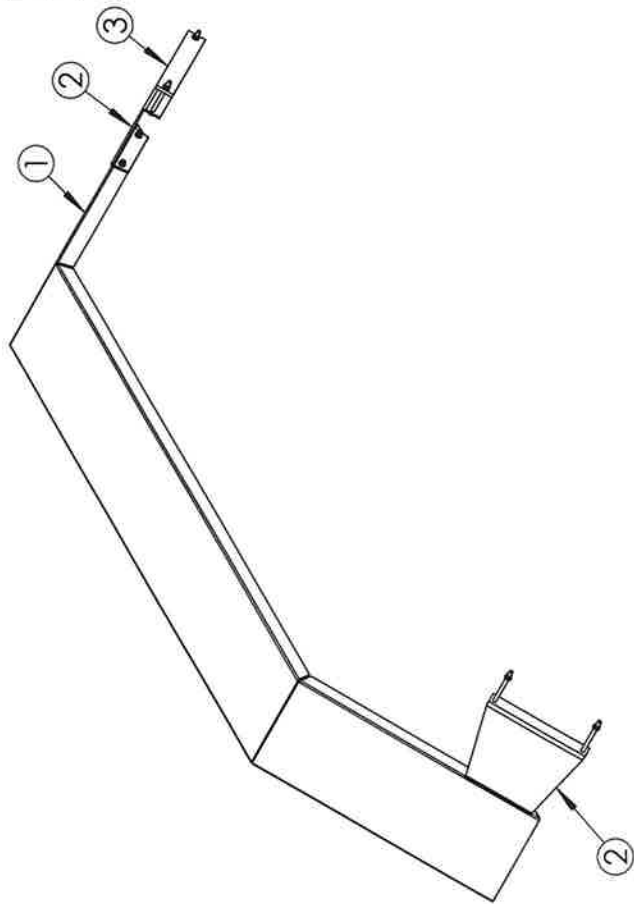


AG116 DRAINABLE FENDER SET (12")

P/N: 47997877

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47007877	FENDER WELDMENT	2
2	47007878	STAND-OFF BRACKET, FENDER	4
3	47019368	CLAMP PLATE, FENDER	2
4	18056852	BOLT, 3/8-16 X 4 1/2 LG ZC	8
5	18056822	BOLT HX CAP G5NCZC 3/8 X 1	8
6	18496800	FLANGE NUT, 3/8-16 NC	16

ITEMS 4 - 6 ARE INCLUDED AS BOLT PACKAGE 47098845



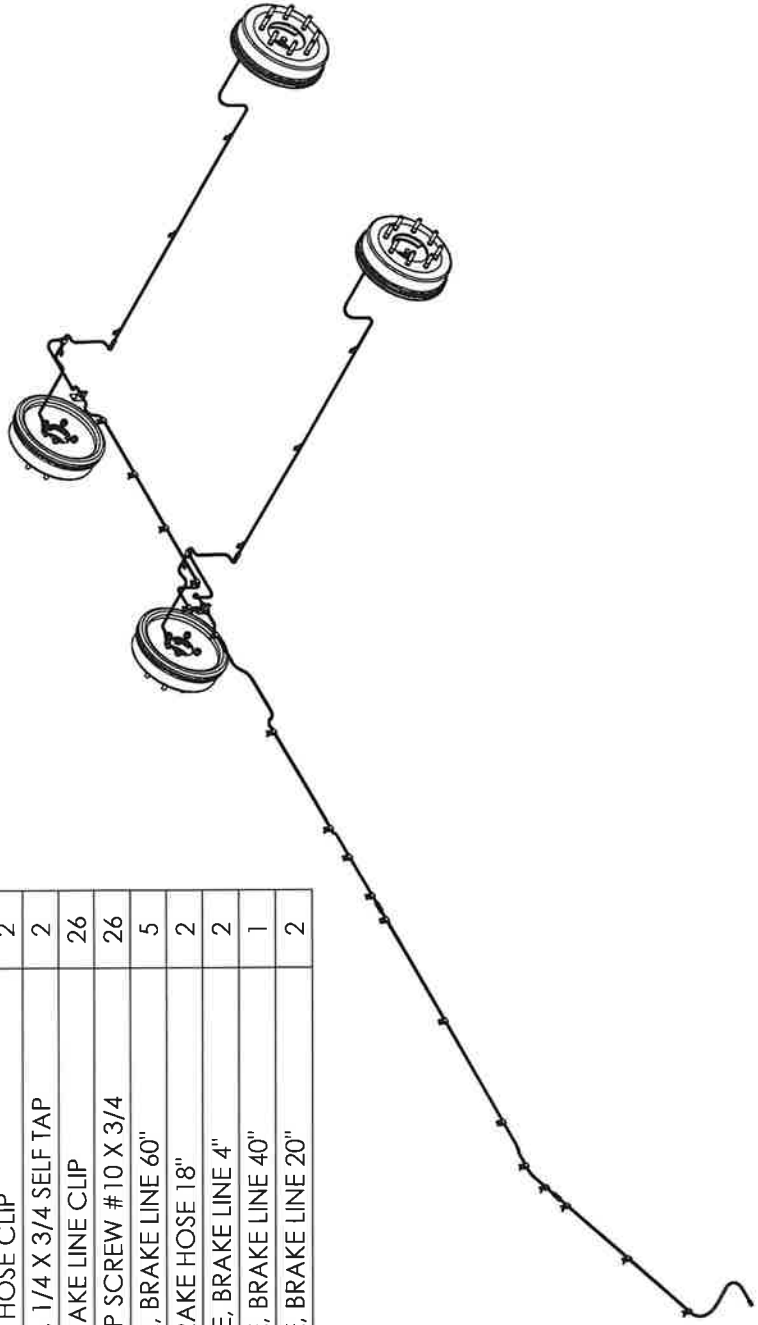
AG116 EXTENDED

4 WHEEL BRAKE PACKAGE

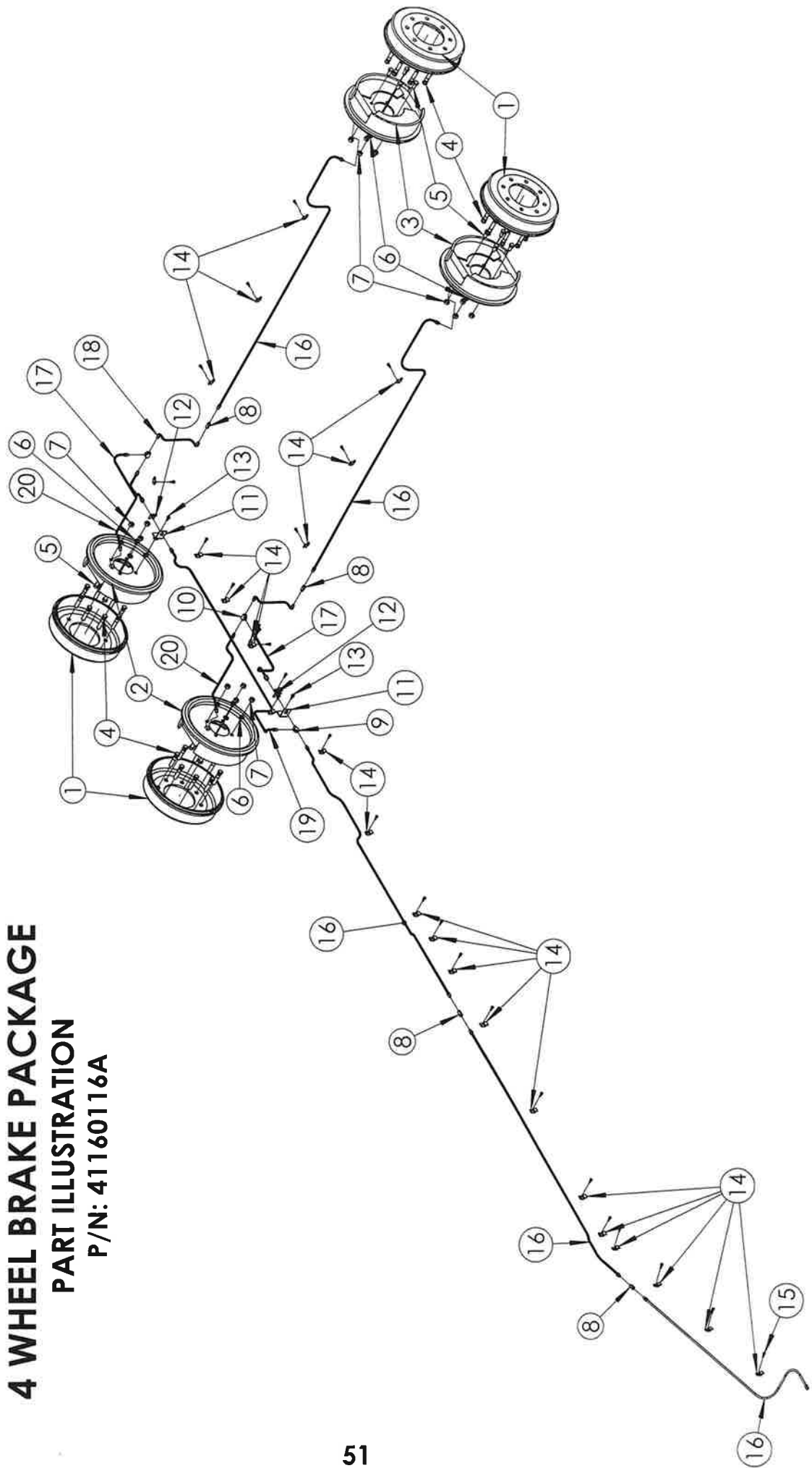
PART LISTING

P/N: 41160116A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47005650	BRAKE DRUM	4
2	47005651	BRAKE CLUSTER (13") RH	2
3	47005652	BRAKE CLUSTER (13") LH	2
4	71954	WHEEL STUD LONG	32
5	18057522	BOLT 1/2-20 X 1 ZC	16
6	18891400	WASHER, 1/2 LOCK ZC	16
7	18437500	NUT, HEX 1/2-20	16
8	47005660	UNION, 3/16	4
9	47005680	TEE, F X F X M	1
10	47005685	UNION TEE	2
11	47005663	HOSE BRACKET	2
12	47005664	HOSE CLIP	2
13	18715718	SCREW, 1/4 X 3/4 SELF TAP	2
14	47005666	BRAKE LINE CLIP	26
15	18721018	SELF TAP SCREW #10 X 3/4	26
16	47005688	TUBE, BRAKE LINE 60"	5
17	47005665	BRAKE HOSE 18"	2
18	47005682	TUBE, BRAKE LINE 4"	2
19	47005694	TUBE, BRAKE LINE 40"	1
20	47005692	TUBE, BRAKE LINE 20"	2



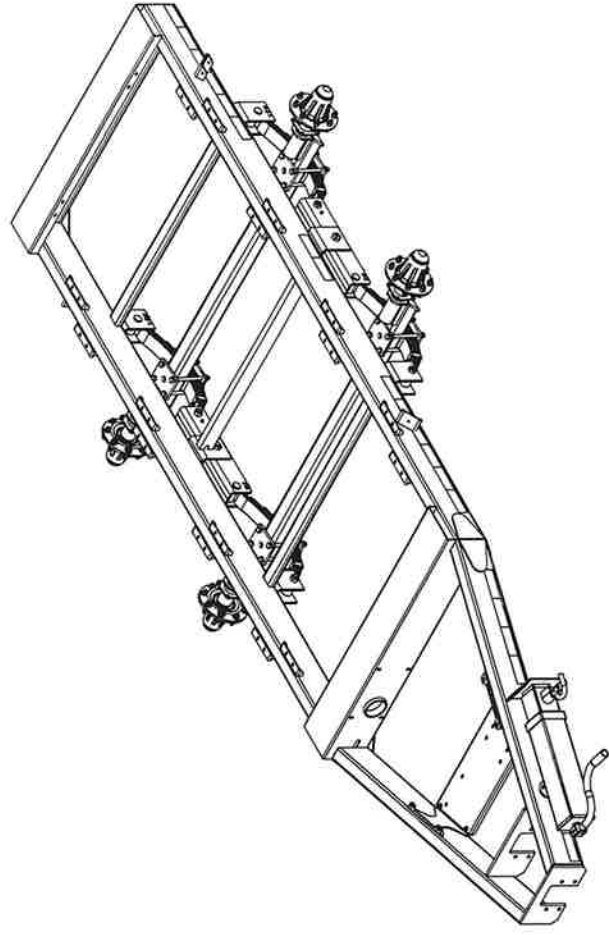
AG116 EXTENDED **4 WHEEL BRAKE PACKAGE** **PART ILLUSTRATION** **P/N: 41160116A**



AG1116 FRAME (NEW STYLE)

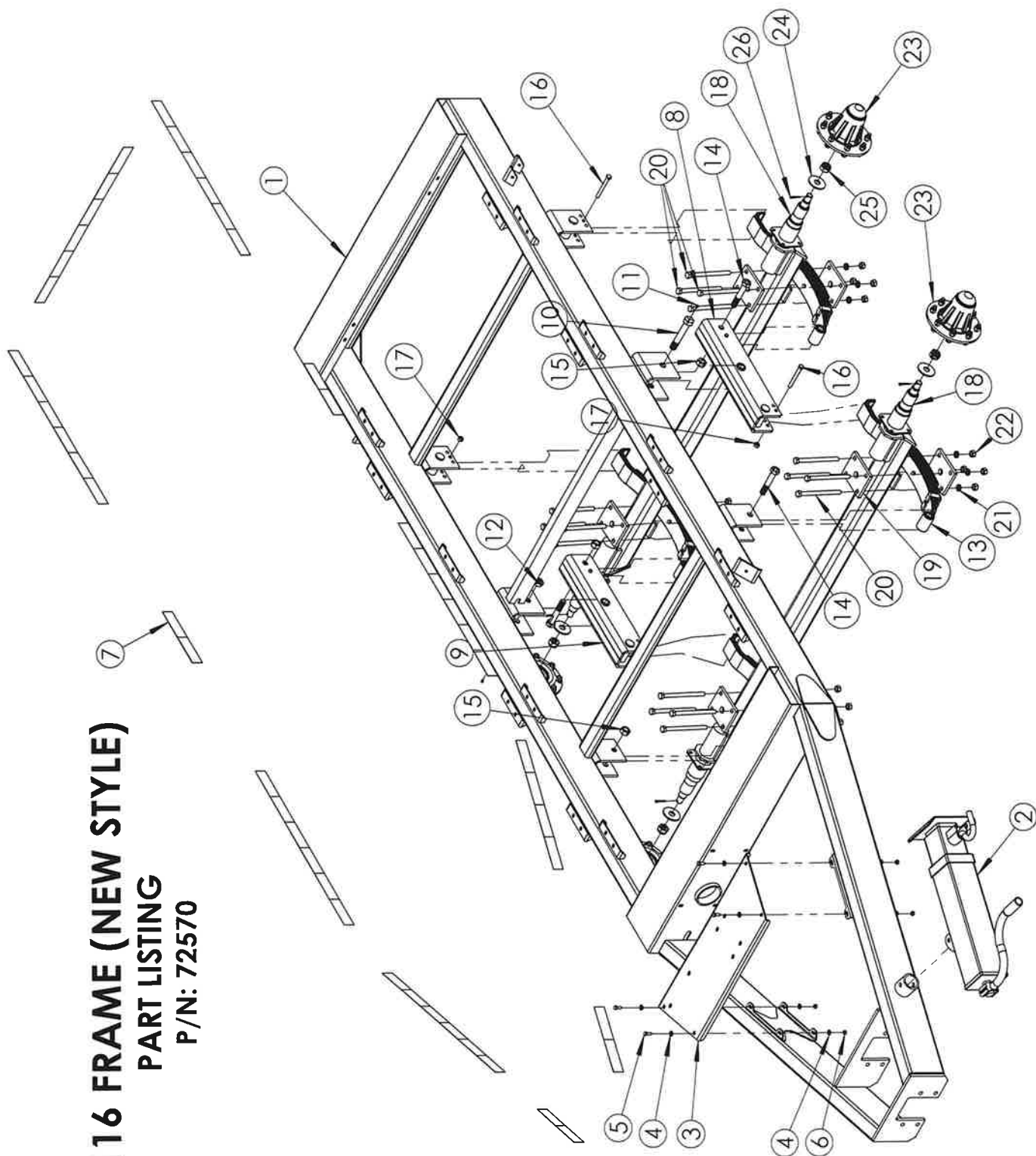
PART LISTING

P/N: 72570



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72563	FRAME, AG1116	1
2	70924	COMPLETE JACK ASSEMBLY	1
3	72545	PUMP PLATE, BOLT ON	1
4	18991200	WASHER FLAT 3/8 SS	8
5	18056822	BOLT HX CAP G5NCZC 3/8 X 1	4
6	18459200	NUT 3/8 NYLOCK	4
7	24-4	REFLECTIVE TAPE PACKAGE	1
8	47008551	EQUALIZER, LEFT HAND	1
9	47008550	EQUALIZER, RIGHT HAND	1
10	47008908	BOLT, SPRING HANGER	2
11	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
12	18449000	NUT HX JAM 1" NCSC	2
13	47004202	LEAF SPRING, 6 LEAF	4
14	18057805	BOLT 7/8-9 NC X 5 LG GR5 ZC	4
15	18417800	NUT, HEX 7/8 NC	4
16	18057450	BOLT, 1/2-13 X 4 1/2 LG	4
17	18457650	NUT CTR LOCK 1/2 ZP ZC	4
18	47007882	TANDEM AXLE	2
19	47008529	SPRING CLAMP PLATE	8
20	18057976	BOLT HX 5/8 X 8 1/2 GR 5 NC ZC	16
21	18891600	WASHER, LOCK 5/8 ZC	16
22	18417900	NUT, 5/8 NC	16
23	47009712	HUB ASSEMBLY	4
24	18000017	SPINDLE WASHER 1 X .187	4
25	18489100	SLOTTED NUT	4
26	18560830	COTTER PIN	4

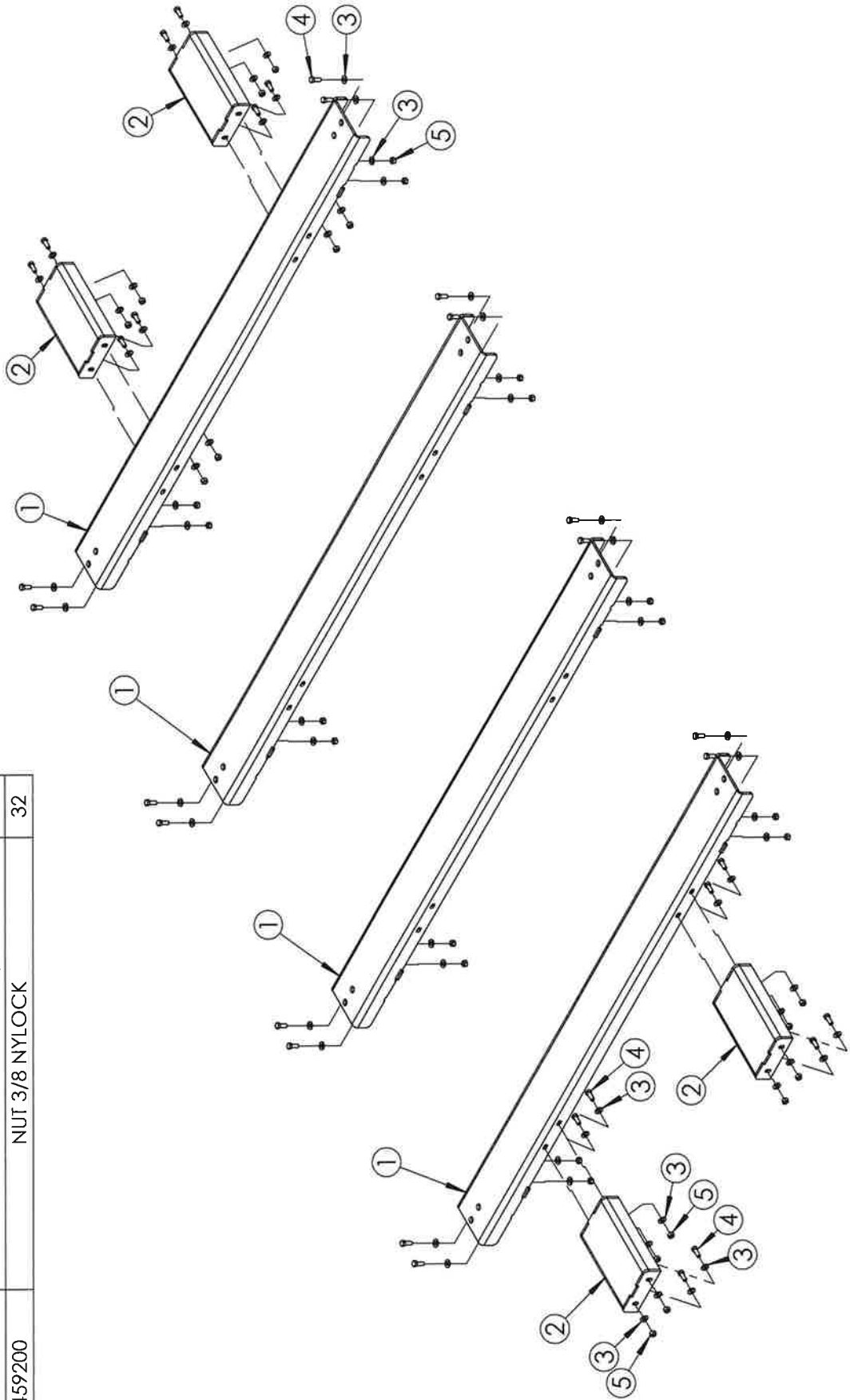
AG116 FRAME (NEW STYLE) **PART LISTING** **P/N: 72570**

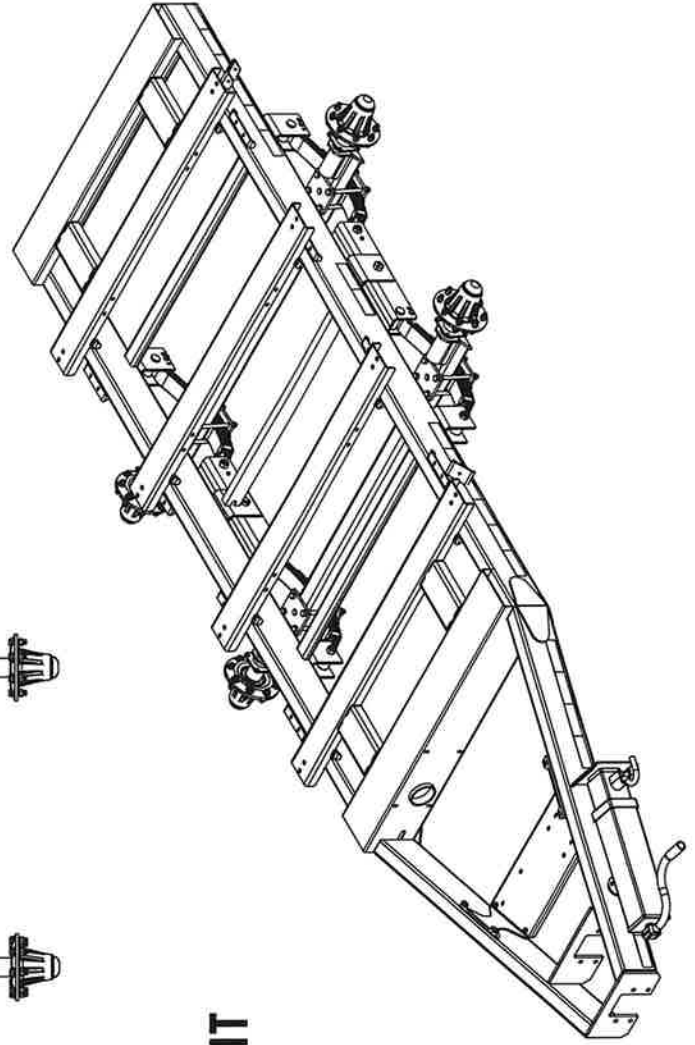
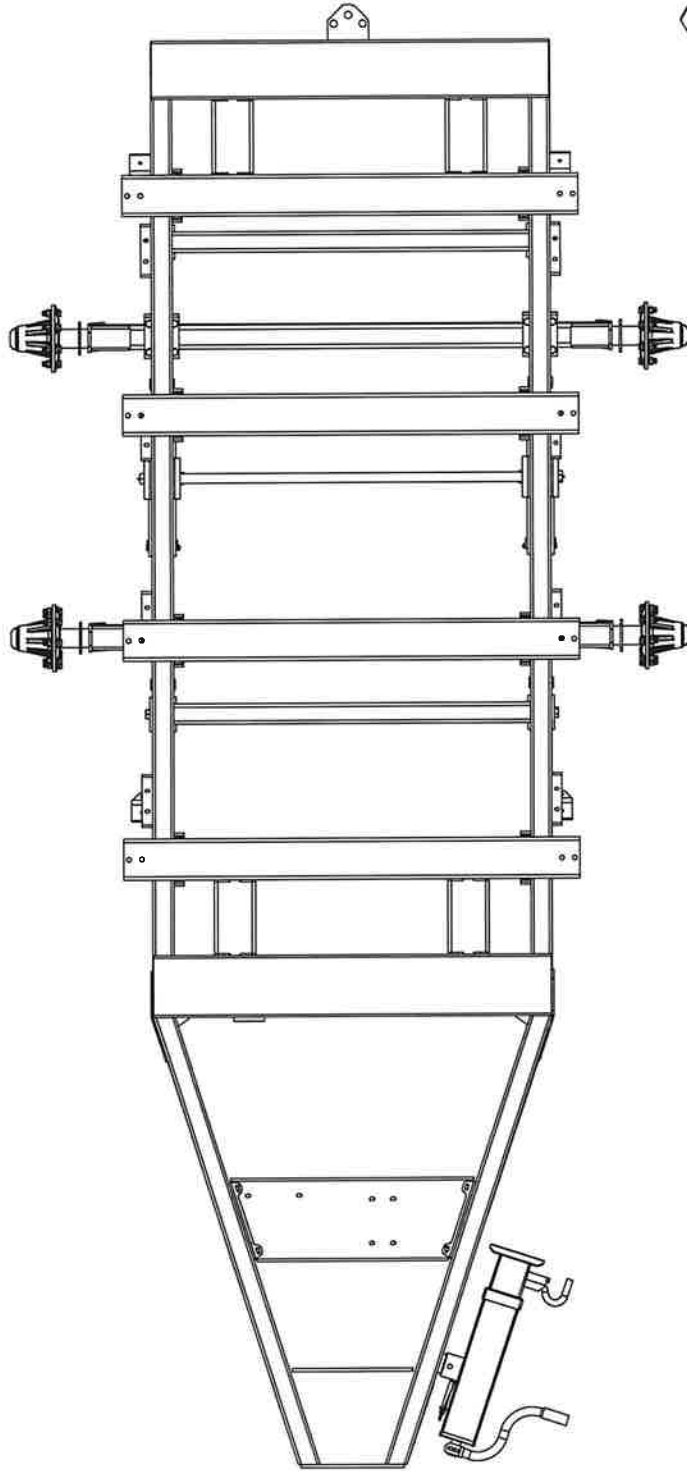


AG1116 FLAT CROSSMEMBER KIT

P/N: 72565

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72555	FLAT CHANNEL WLDT	4
2	72558	FLAT CHANNEL WLDT, FRONT/REAR	4
3	18991200	WASHER FLAT 3/8 SS	64
4	18056822	BOLT HX CAP G5NCZC 3/8 X 1	32
5	18459200	NUT 3/8 NYLOCK	32



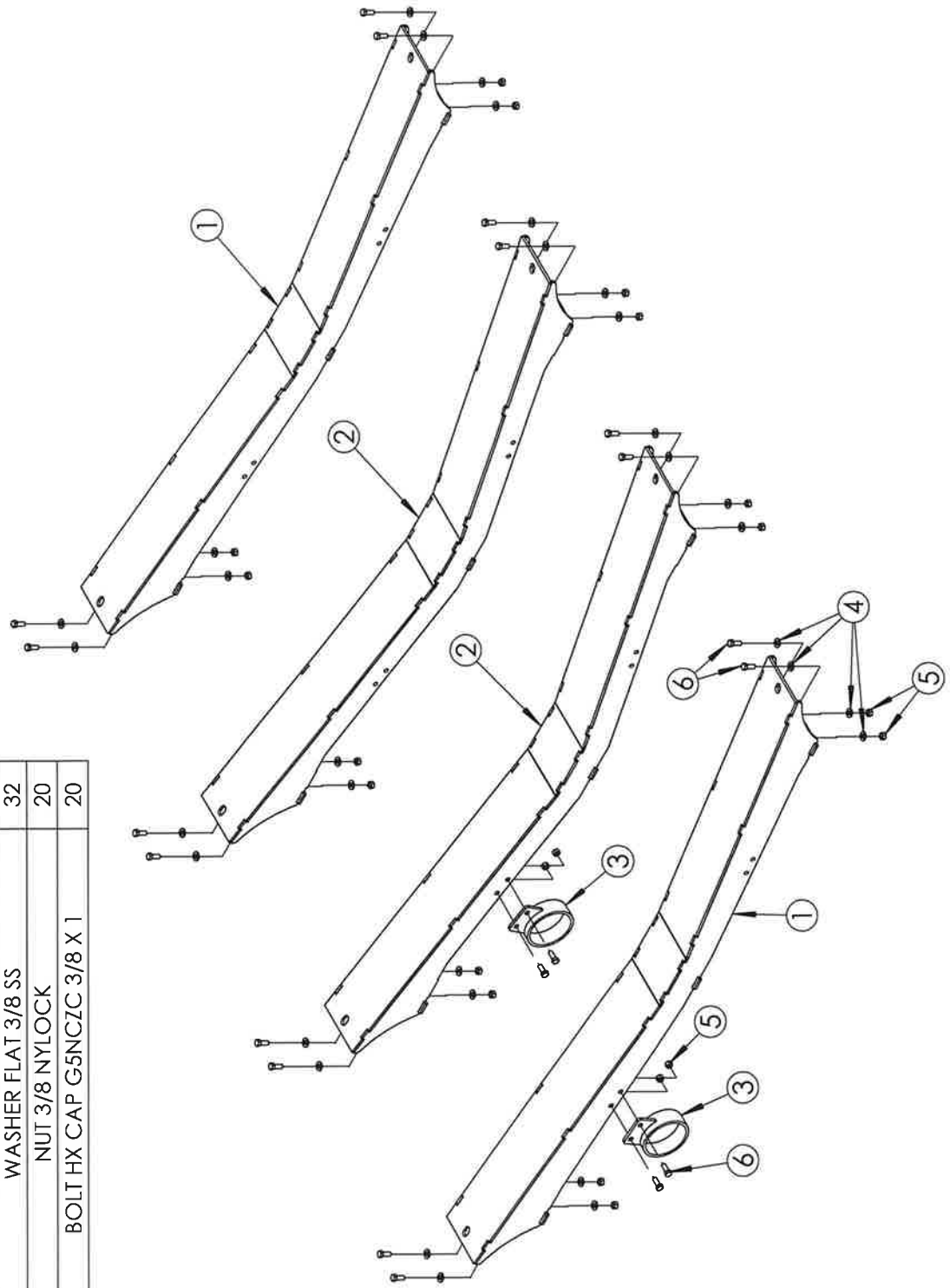


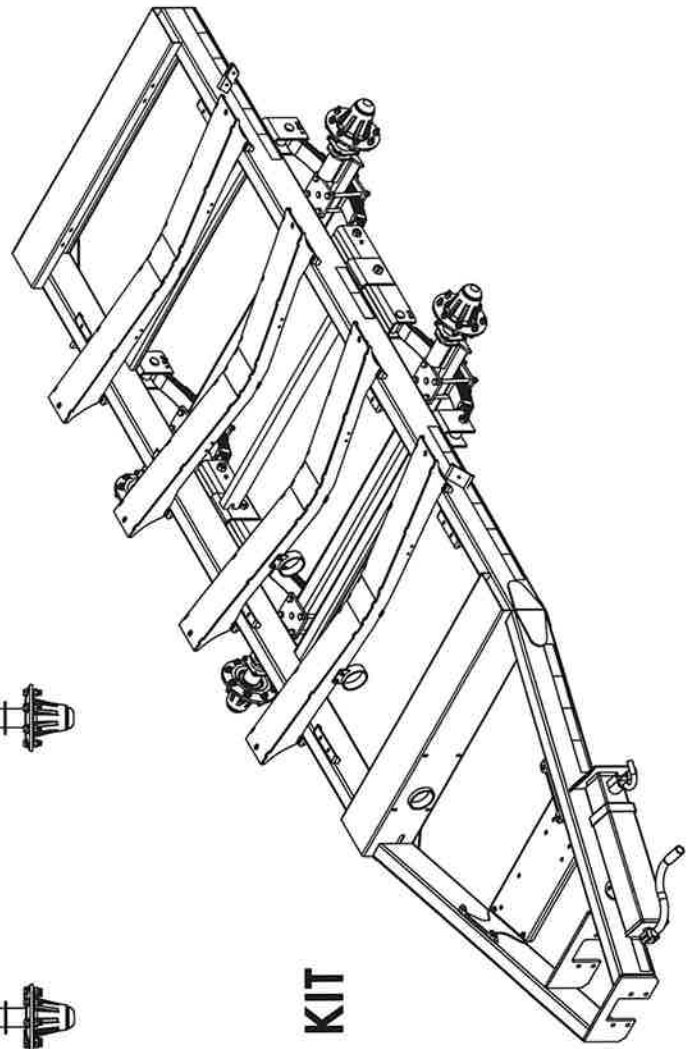
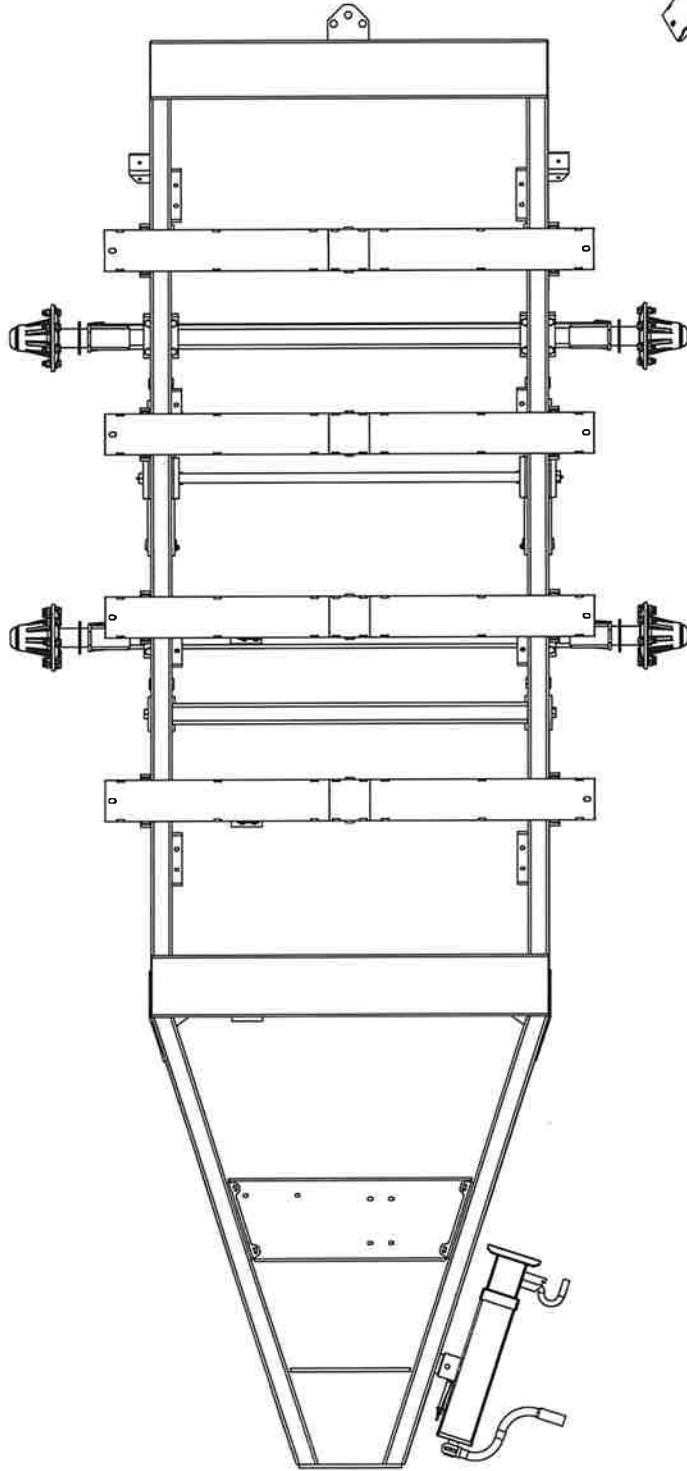
AG116 FLAT CROSSMEMBER KIT
ASSEMBLED TO FRAME

AG116 DRAINABLE CROSSMEMBER KIT

P/N: 72564

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72546	SHALLOW CHANNEL WELDT	2
2	72552	DEEP CHANNEL WELDT	2
3	72562	HOSE BRACKET	2
4	18991200	WASHER FLAT 3/8 SS	32
5	18459200	NUT 3/8 NYLOCK	20
6	18056822	BOLT HX CAP G5NC7C 3/8 X 1	20





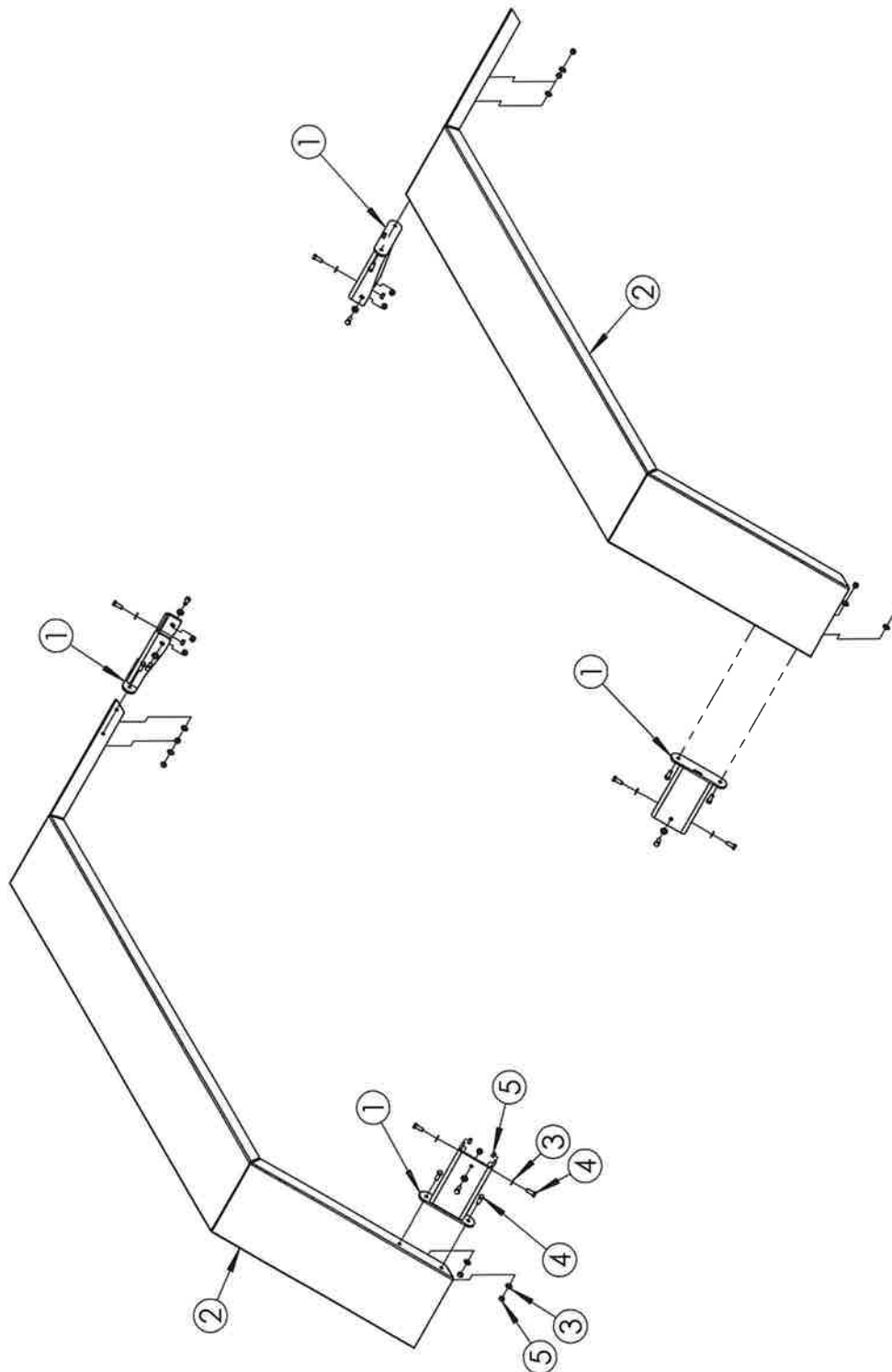
AG116 DRAINABLE CROSSMEMBER KIT

ASSEMBLED TO FRAME

AG116 12" FENDER KIT

(NEW STYLE)
P/N: 72566

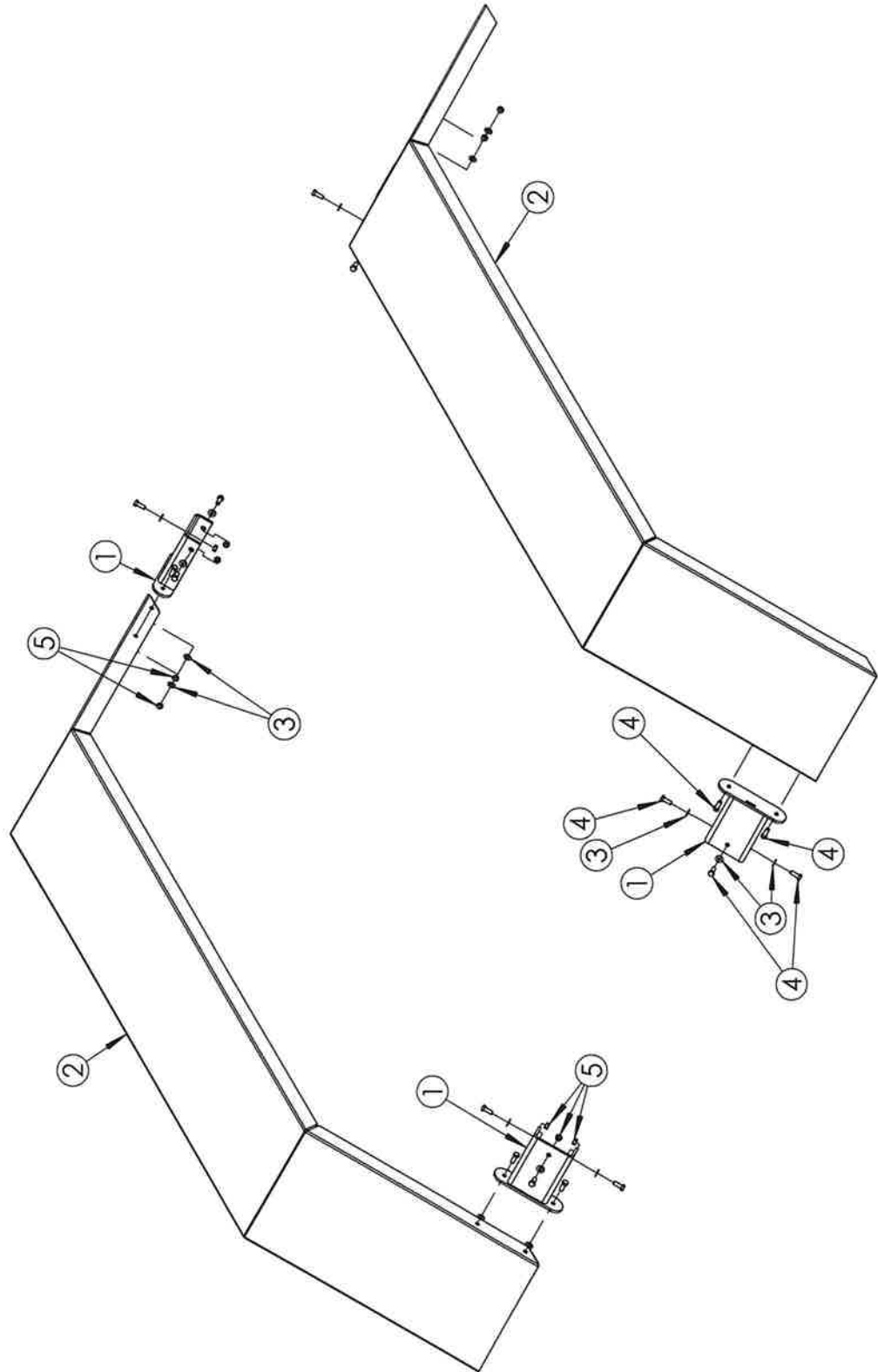
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72567	FENDER MOUNT WELDT	4
2	47007877	FENDER WELDMNT	2
3	18991200	WASHER FLAT 3/8 SS	20
4	18056822	BOLT HX CAP G5NCZC 3/8 X 1	20
5	18459200	NUT 3/8 NYLOCK	20



AG116 16" FENDER KIT

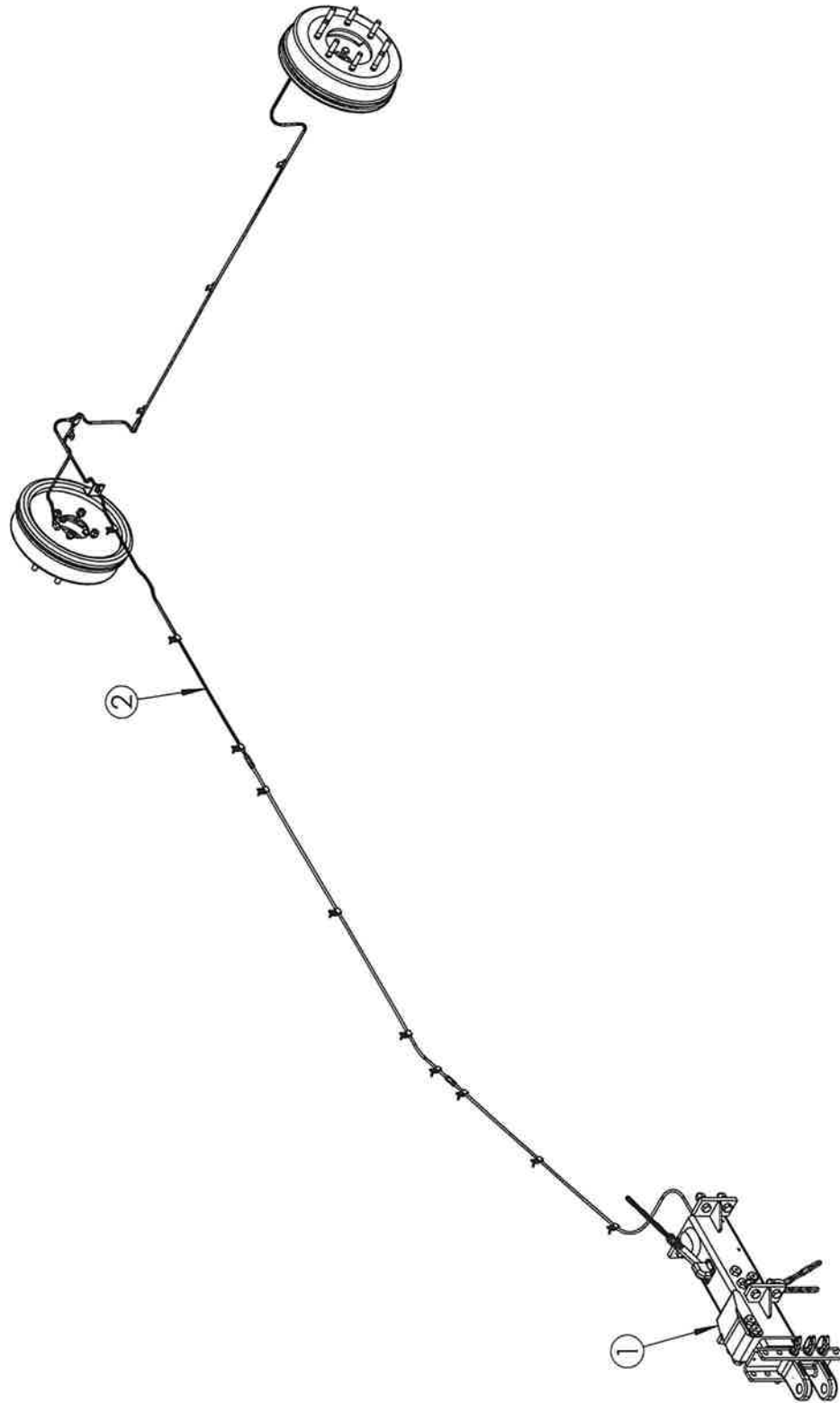
(NEW STYLE)
P/N: 72603

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72602	WIDE FENDER MOUNT WELDT	4
2	47008845	FENDER WELDMENT	2
3	18991200	WASHER FLAT 3/8 SS	20
4	18056822	BOLT HX CAP G5NCZC 3/8 X 1	20
5	18459200	NUT 3/8 NYLOCK	20



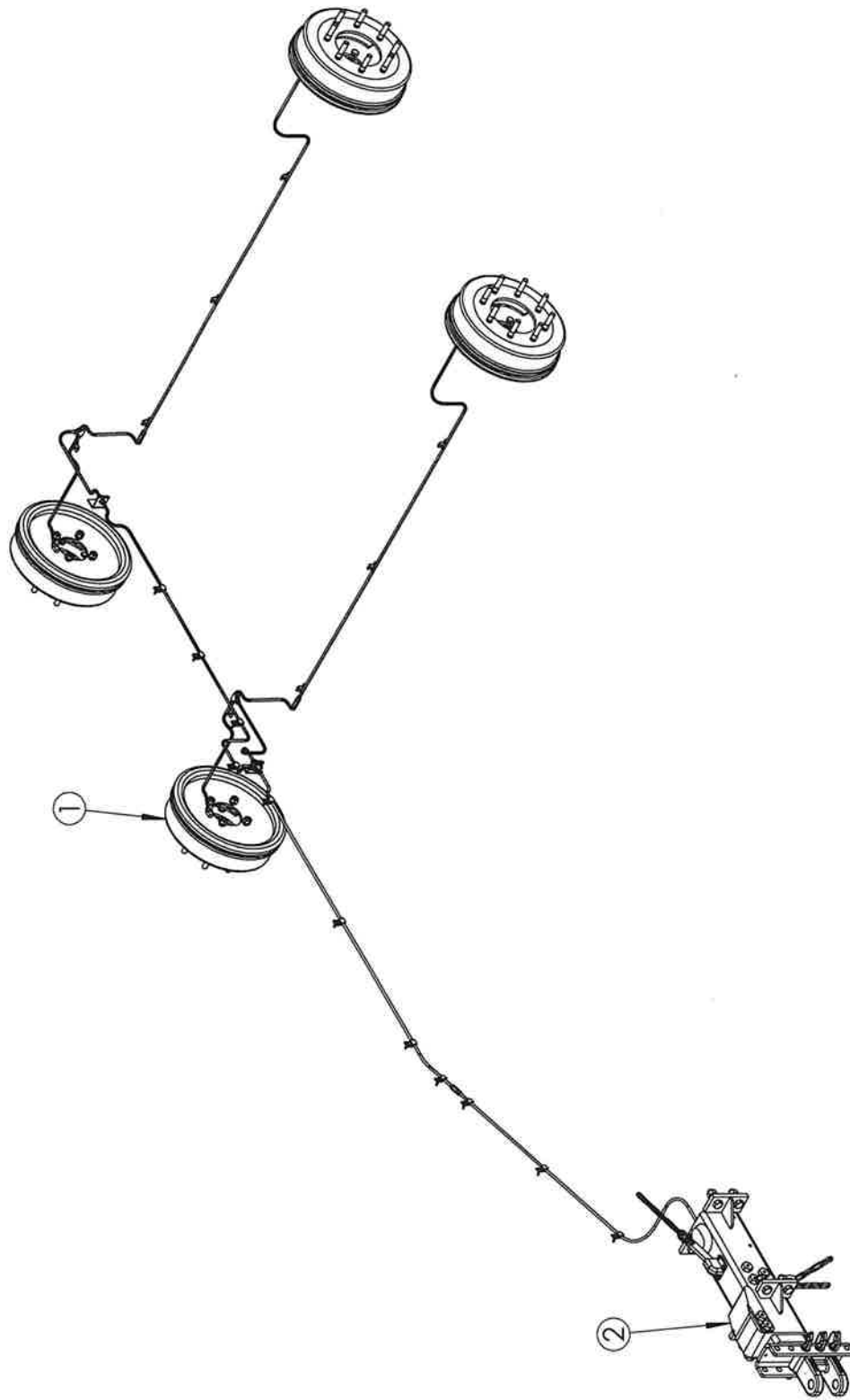
AG116 2 WHEEL BRAKE KIT (NEW STYLE) P/N: 72607

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72473	DEXTER HITCH W/ BRAKES	1
2	41160116C	2 WHEEL BRAKE PACKAGE	1



AG116 4 WHEEL BRAKE KIT (NEW STYLE) P/N: 72606

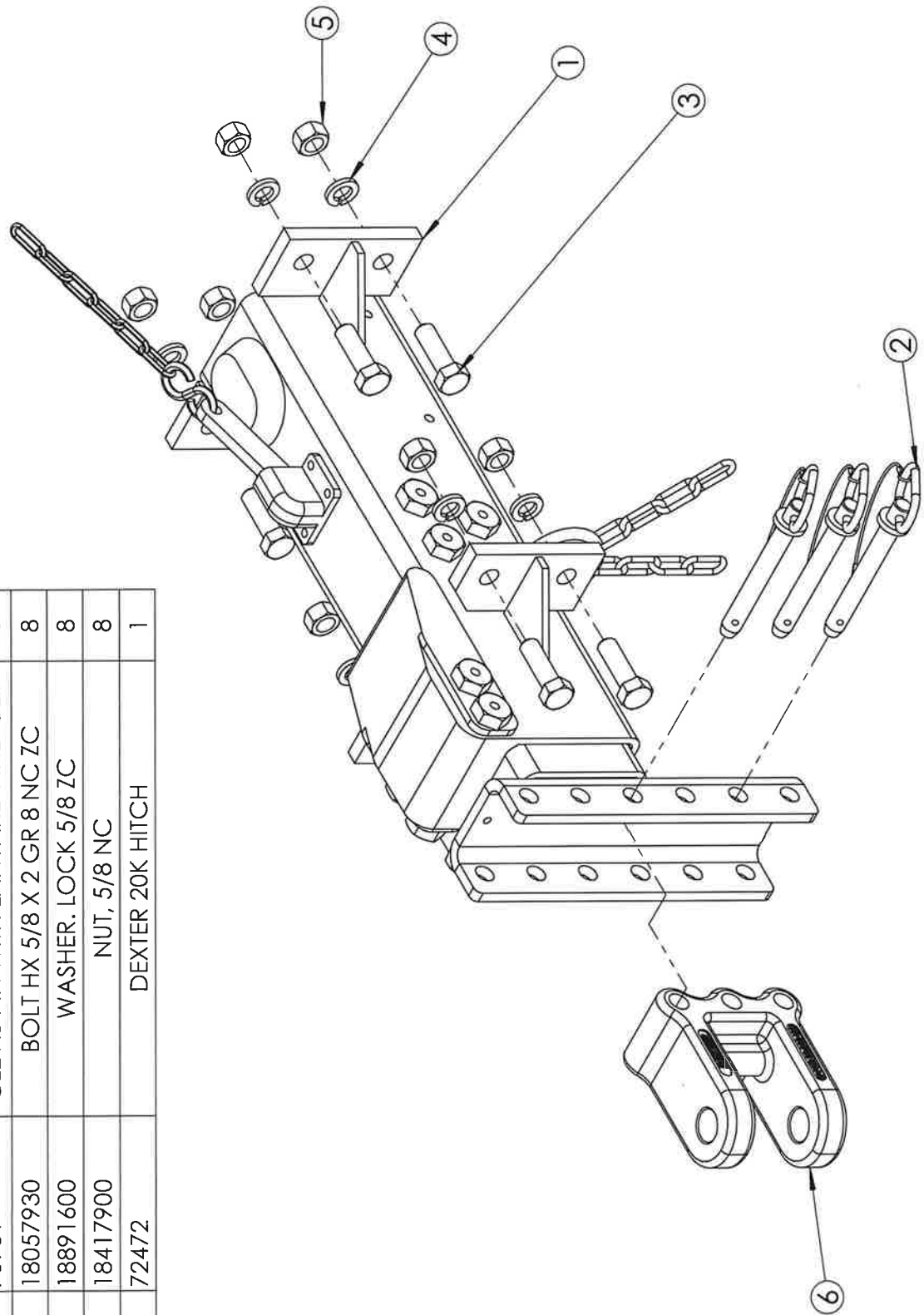
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	41160116	4 WHEEL BRAKE PACKAGE	1
2	72473	DEXTER HITCH W/ BRAKES	1



DEXTER HITCH W/ BRAKES

P/N: 72473

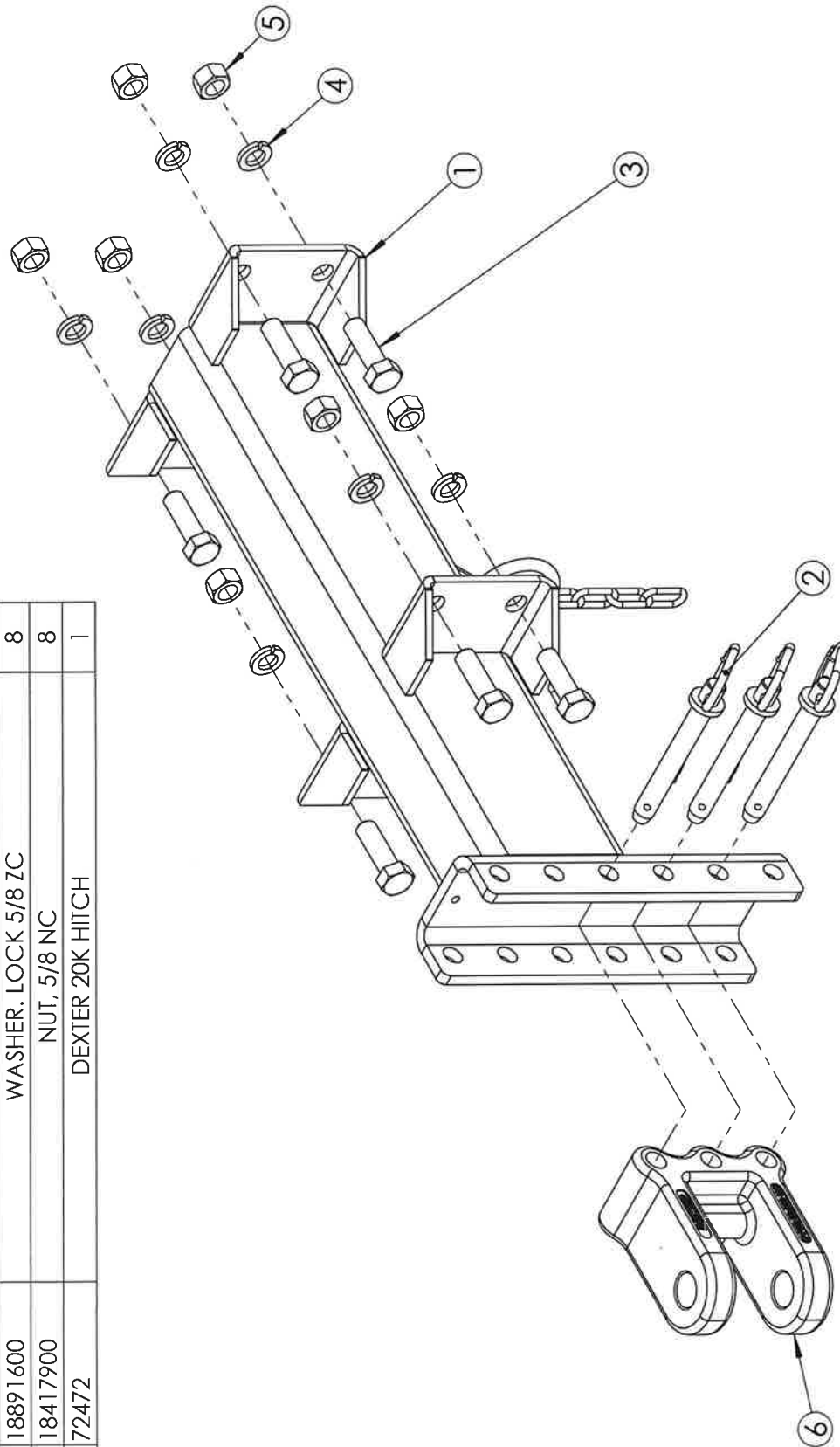
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72468	ACTUATOR POLE WELDT DEXTER	1
2	70931	CLEVIS PIN WITH LANYARD AND CLIP	3
3	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
4	18891600	WASHER. LOCK 5/8 ZC	8
5	18417900	NUT, 5/8 NC	8
6	72472	DEXTER 20K HITCH	1



DEXTER HITCH W/O BRAKES

P/N: 72474

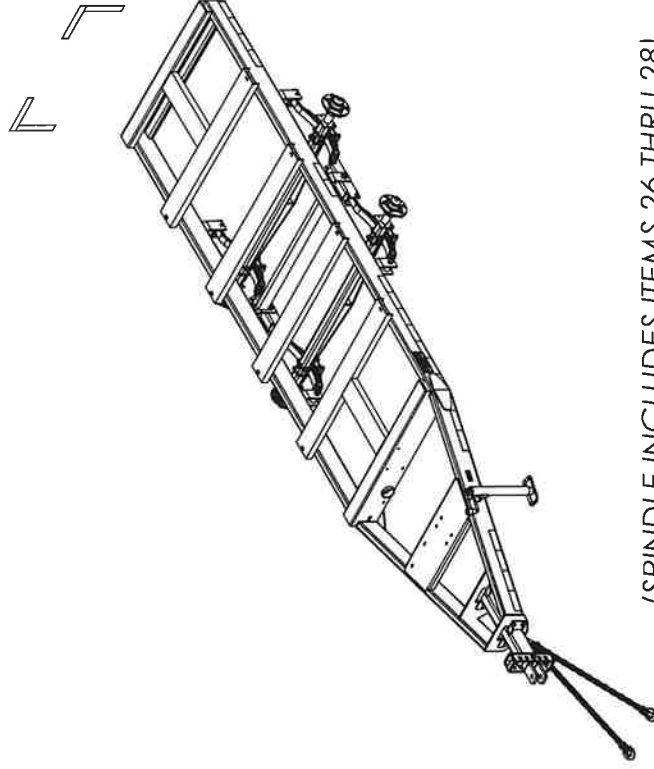
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72470	SOLID POLE ASSY DEXTER	1
2	70931	CLEVIS PIN WITH LANYARD AND CLIP	3
3	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
4	18891600	WASHER, LOCK 5/8 ZC	8
5	18417900	NUT, 5/8 NC	8
6	72472	DEXTER 20K HITCH	1



AG1000 FLAT FRAME

PART LISTING

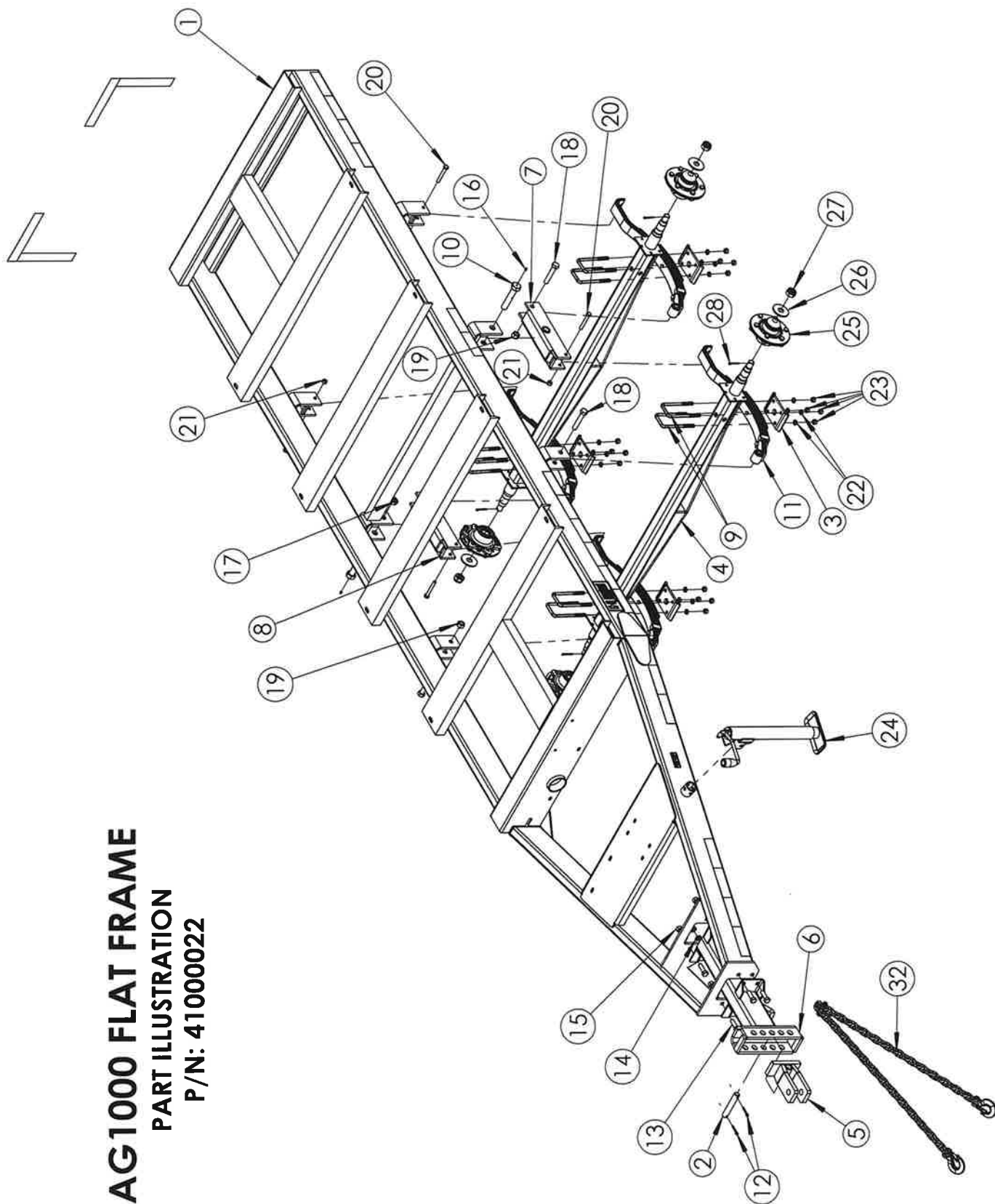
P/N: 41000022



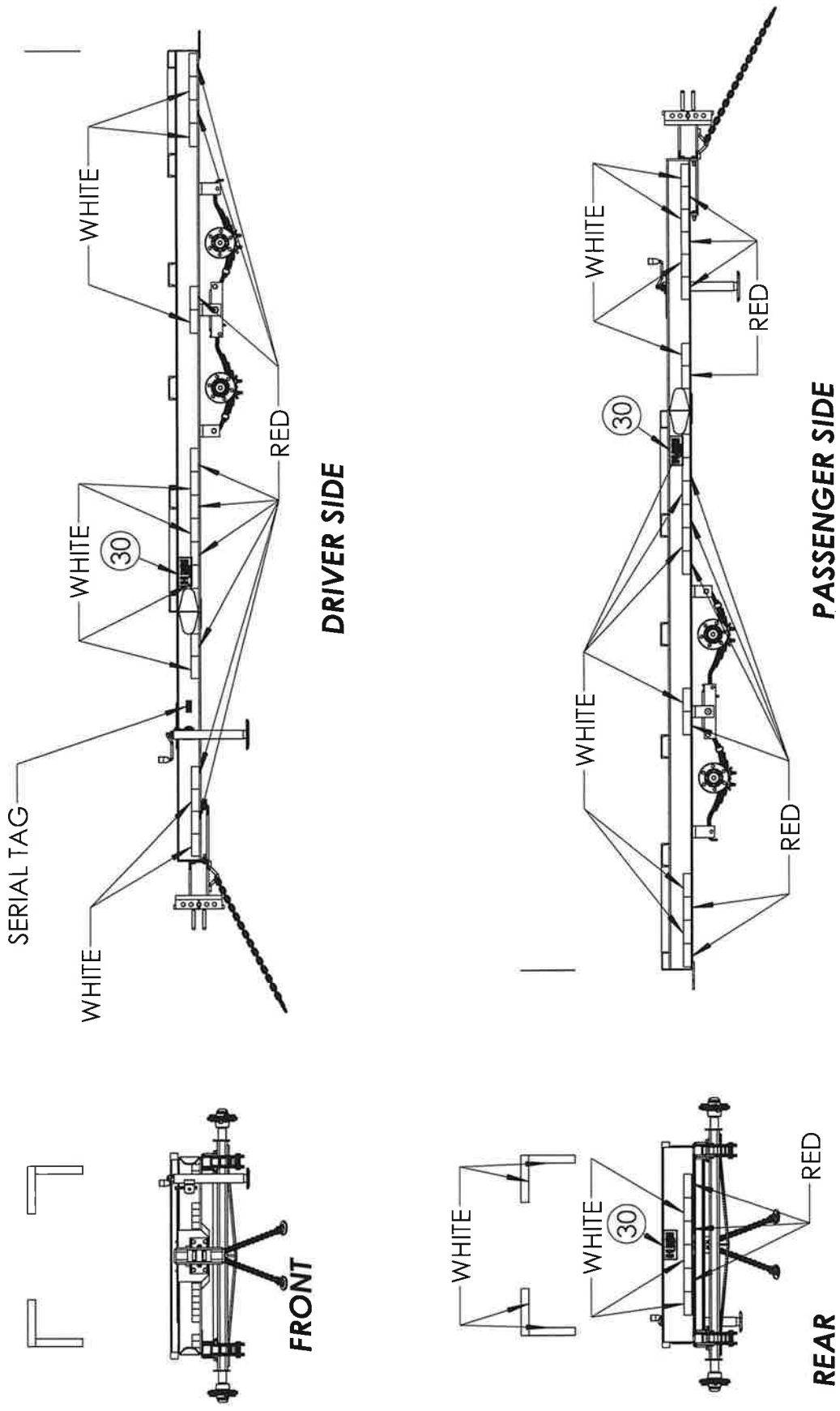
(SPINDLE INCLUDES ITEMS 26 THRU 28)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47009361	FRAME 1000 GAL TANK	1
2	47001319	CLEVIS PIN	1
3	47001276	CLAMP PLATE, U-BOLT	4
4	47003102	AXLE WELDMENT	2
5	47009285	HITCH CLEVIS	1
6	47009359	POLE, SOLID-TANDEM	1
7	47009527	SPRING EQUALIZER, LH	1
8	47309527	SPRING EQUALIZER, RH	1
9	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
10	47001528	SPRING BOLT, 1-8NC X 5 LG	2
11	47005005	LEAF SPRING, 5 LEAF	4
12	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18891600	WASHER, LOCK 5/8 ZC	8
15	18417900	NUT, 5/8 NC	8
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
19	18418400	NUT HX 3/4 NC ZC	4
20	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
21	18457650	NUT CTR LOCK 1/2 ZP ZC	4
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	600378	JACK, TWL158 DTSF W/P&C	1
25	47009611	HUB COMPLETE (W/O BRAKES)	4
26	18000017	SPINDLE WASHER 1 X .187	4
27	18489100	SLOTTED NUT	4
28	18560828	COTTER PIN 3/16 X 1 3/4	4
29	22-4	REFLECTIVE TAPE KIT	1
30	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
32	47000314	SAFETY CHAIN W/ HARDWARE	1

AG1000 FLAT FRAME **PART ILLUSTRATION** **P/N: 41000022**



AG1000 FLAT FRAME DECAL LAYOUT



AG1000 FLAT FRAME OPTIONS

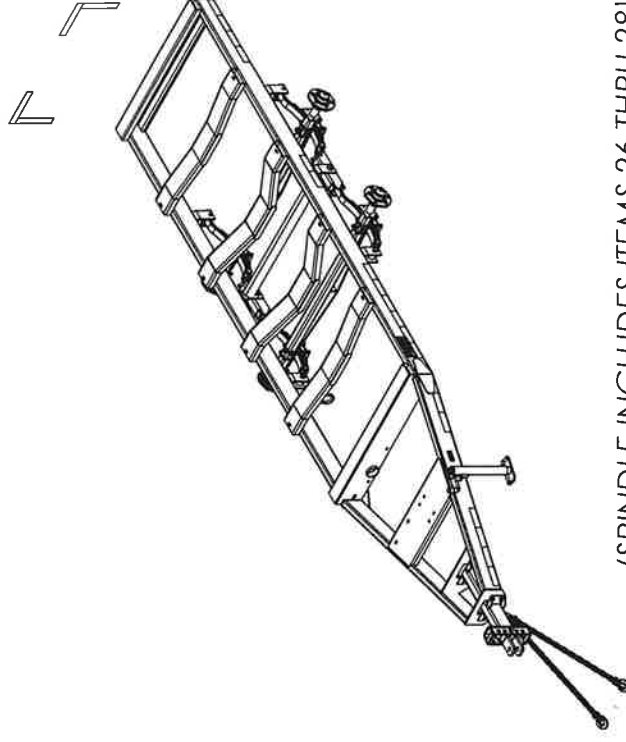
TIRE PACKAGE OPTIONS		
PART NUMBER	DESCRIPTION	QTY
47005809	10 X 15 RIM ONLY 6 ON 6	4
40003	11L X 15 8-PLY TUBELESS MTD ON 8" RIM	4
40004	12.5L X 15 10-PLY TIRE MOUNTED ON 10" RIM	4
40034	12 X 15 10 PLY IMP. TREAD HWY SERVICE TIRE MTD ON RIM	4
MISC OPTIONS		
PART NUMBER	DESCRIPTION	QTY
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
41002516	2 5/16" BALL HITCH PACKAGE	1
47018794	FENDER SET	1
47999462	BOLT ON STEP	1
700081	HOOP SET	1

AG1000 DRAINABLE FRAME

PART LISTING

P/N: 41000032

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47009349	FRAME, 1000 GAL TANK	1
2	47001319	CLEVIS PIN	1
3	47001276	CLAMP PLATE, U-BOLT	4
4	47003102	AXLE WELDMENT	2
5	47009285	HITCH CLEVIS	1
6	47009359	POLE, SOLID-TANDEM	1
7	47009527	SPRING EQUALIZER, LH	1
8	47309527	SPRING EQUALIZER, RH	1
9	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
10	47001528	SPRING BOLT, 1-8NC X 5 LG	2
11	47005005	LEAF SPRING, 5 LEAF	4
12	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18891600	WASHER, LOCK 5/8 ZC	8
15	18417900	NUT, 5/8 NC	8
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
19	18418400	NUT HX 3/4 NC ZC	4
20	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
21	18457650	NUT CTR LOCK 1/2 ZP ZC	4
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	600378	JACK, TWL158 DTSF W/P&C	1
25	47009611	HUB COMPLETE (W/O BRAKES)	4
26	18000017	SPINDLE WASHER 1 X .187	4
27	18489100	SLOTTED NUT	4
28	18560828	COTTER PIN 3/16 X 1 3/4	4
29	22-4	REFLECTIVE TAPE KIT	1
30	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
32	47000314	SAFETY CHAIN W/ HARDWARE	1

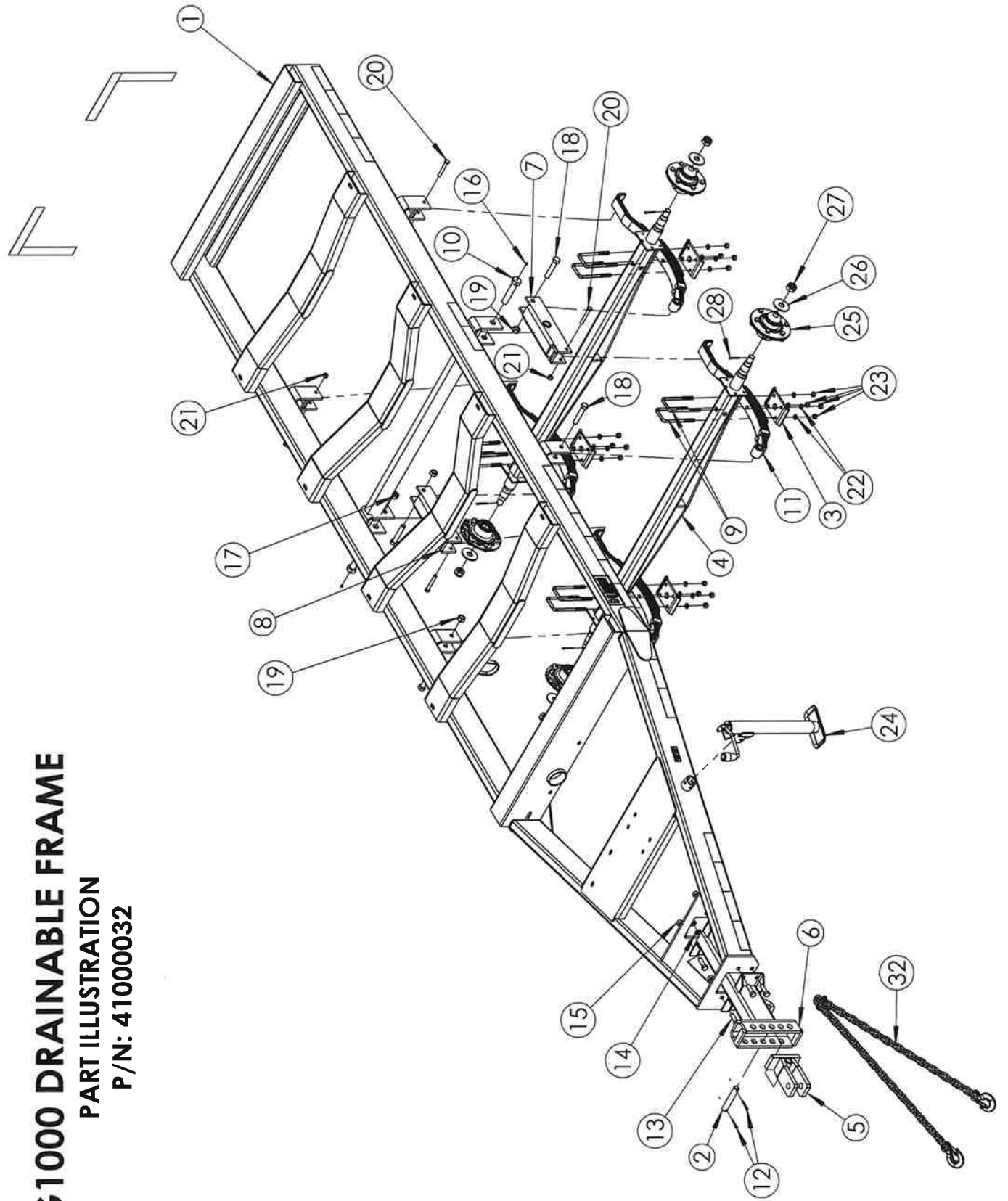


(SPINDLE INCLUDES ITEMS 26 THRU 28)

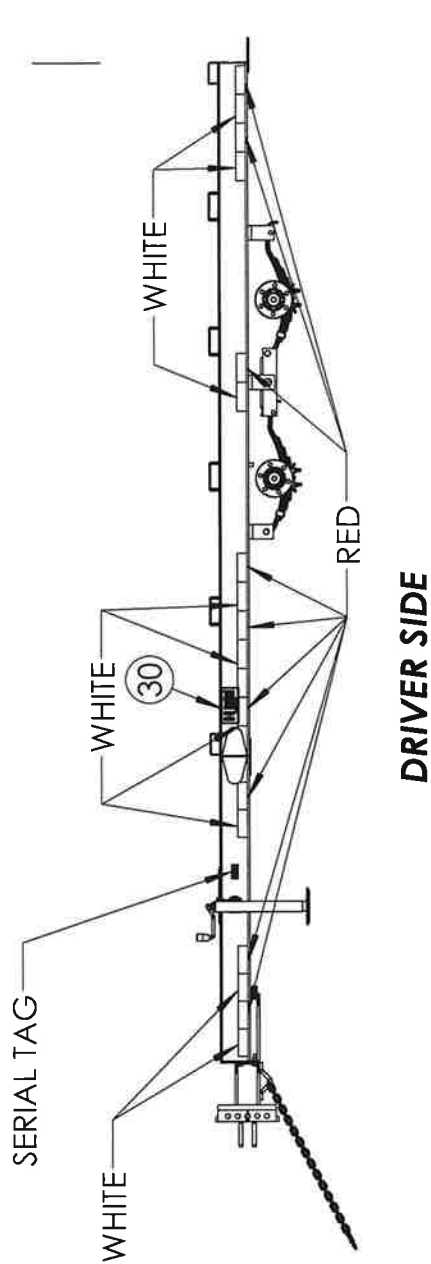
AG1000 DRAINABLE FRAME

PART ILLUSTRATION

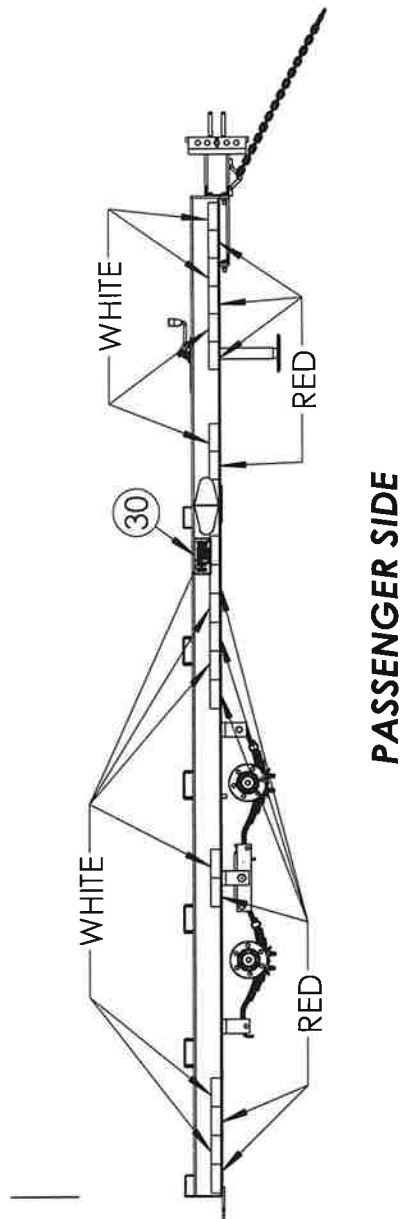
P/N: 41000032



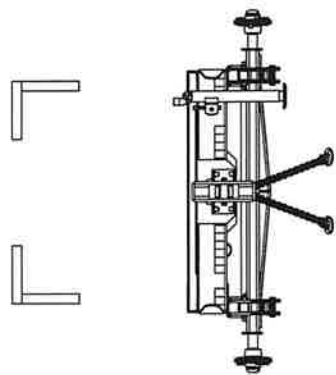
AG1000 DRAINABLE FRAME DECAL LAYOUT



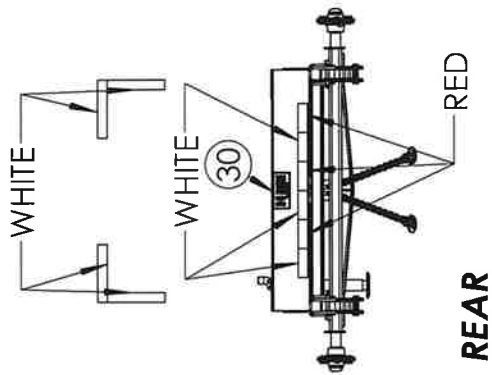
DRIVER SIDE



PASSENGER SIDE



FRONT



REAR

AG1000 DRAINABLE FRAME OPTIONS

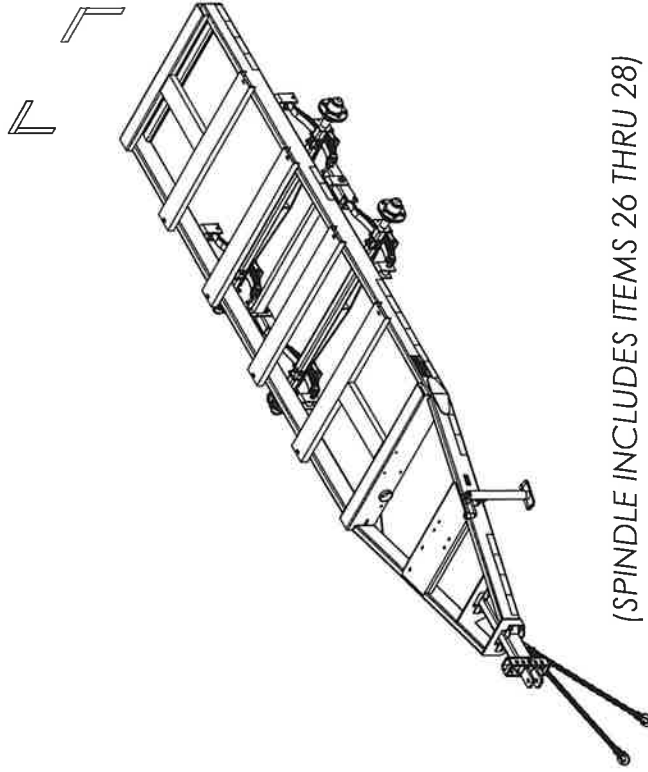
TIRE PACKAGE OPTIONS		
PART NUMBER	DESCRIPTION	QTY
47005809	10 X 15 RIM ONLY 6 ON 6	4
40003	11L X 15 8-PLY TUBELESS MTD ON 8" RIM	4
40004	12.5L X 15 10-PLY TIRE MOUNTED ON 10" RIM	4
40034	12 X 15 10 PLY IMP. TREAD HWY SERVICE TIRE MTD ON RIM	4
MISC OPTIONS		
PART NUMBER	DESCRIPTION	QTY
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
41002516	2 5/16" BALL HITCH PACKAGE	1
47018794	FENDER SET	1
47999462	BOLT ON STEP	1
47028891	HOOP KIT FOR 1000 SNYDER DRAINABLE	1

AG1250 FLAT FRAME

PART LISTING

P/N: 41000052

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47009361	FRAME 1000 GAL TANK	1
2	47001319	CLEVIS PIN	1
3	47001276	CLAMP PLATE, U-BOLT	4
4	47009269	AXLE WELDMENT	2
5	47009285	HITCH CLEVIS	1
6	47009359	POLE, SOLID-TANDEM	1
7	47009527	SPRING EQUALIZER, LH	1
8	47309527	SPRING EQUALIZER, RH	1
9	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
10	47001528	SPRING BOLT, 1-8NC X 5 LG	2
11	47005007	LEAF SPRING (7) LEAF	4
12	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18891600	WASHER, LOCK 5/8 ZC	8
15	18417900	NUT, 5/8 NC	8
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
19	18418400	NUT HX 3/4 NC ZC	4
20	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
21	18457650	NUT CTR LOCK 1/2 ZP ZC	4
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	600378	JACK, TWL158 DTSF W/P&C	1
25	47009618	HUB COMPLETE (W/O BRAKES)	4
26	18000017	SPINDLE WASHER 1 X .187	4
27	18489100	SLOTTED NUT	4
28	18560828	COTTER PIN 3/16 X 1 3/4	4
29	22-4	REFLECTIVE TAPE KIT	1
30	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
32	47000314	SAFETY CHAIN W/ HARDWARE	1

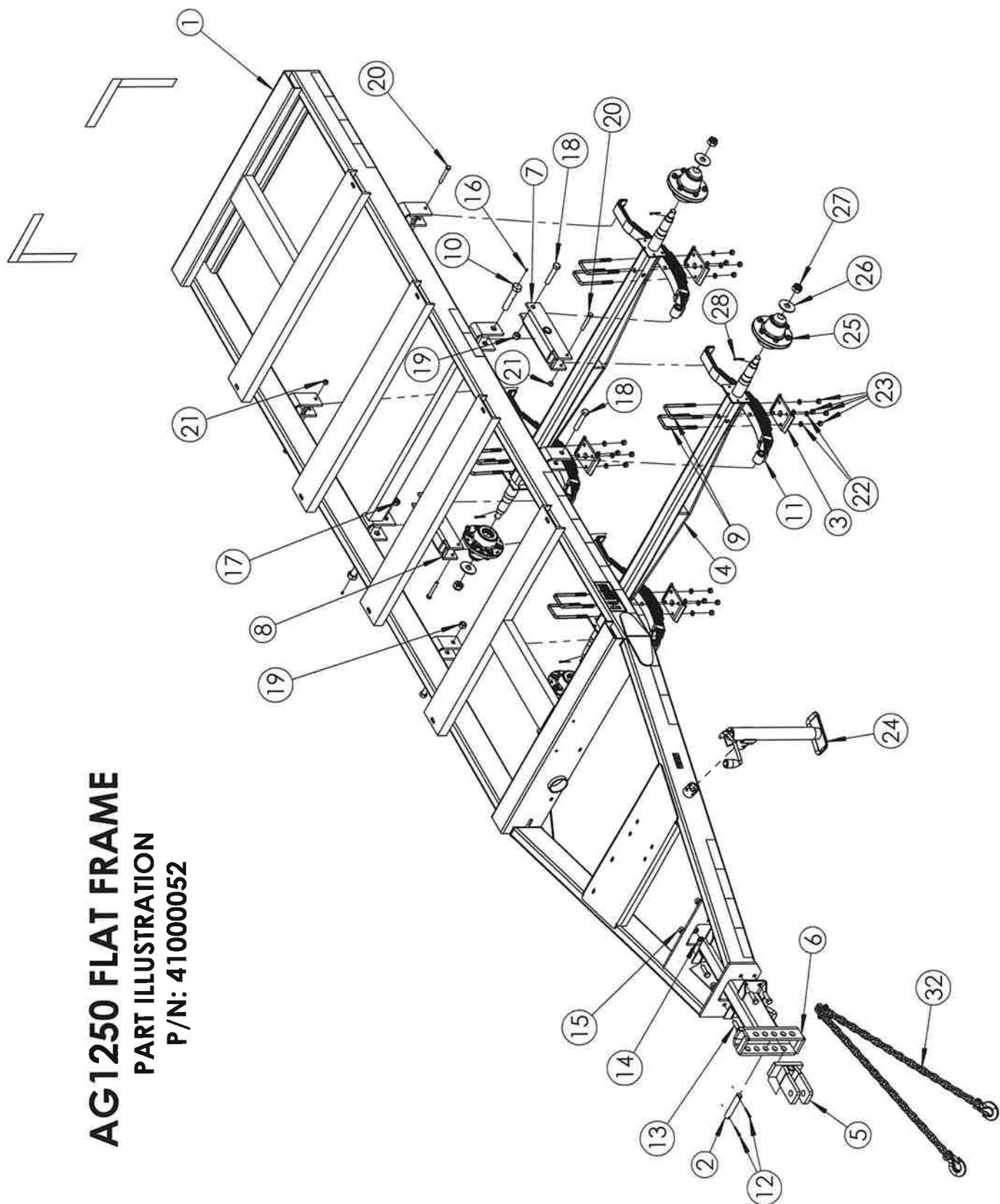


(SPINDLE INCLUDES ITEMS 26 THRU 28)

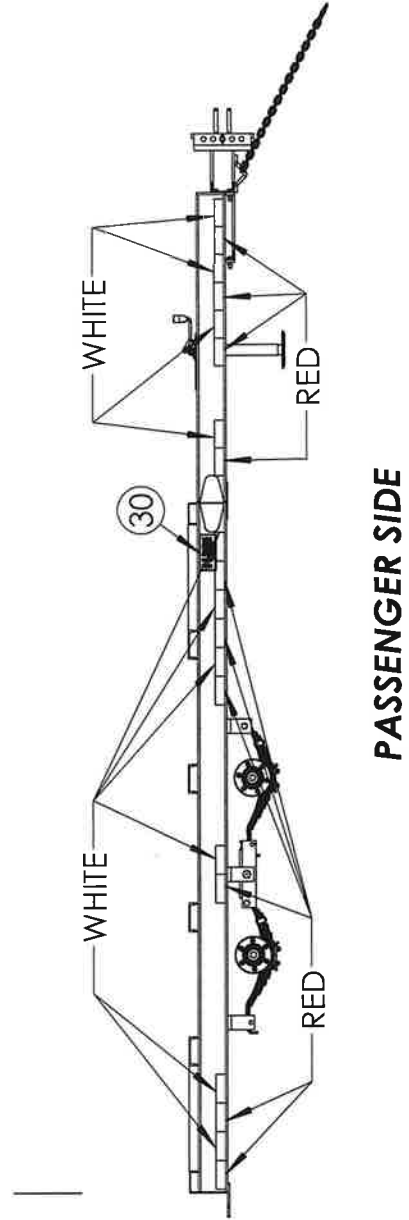
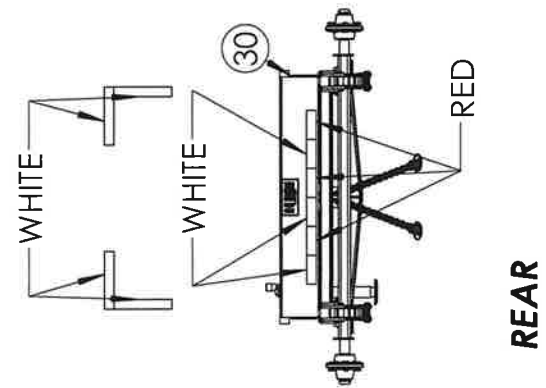
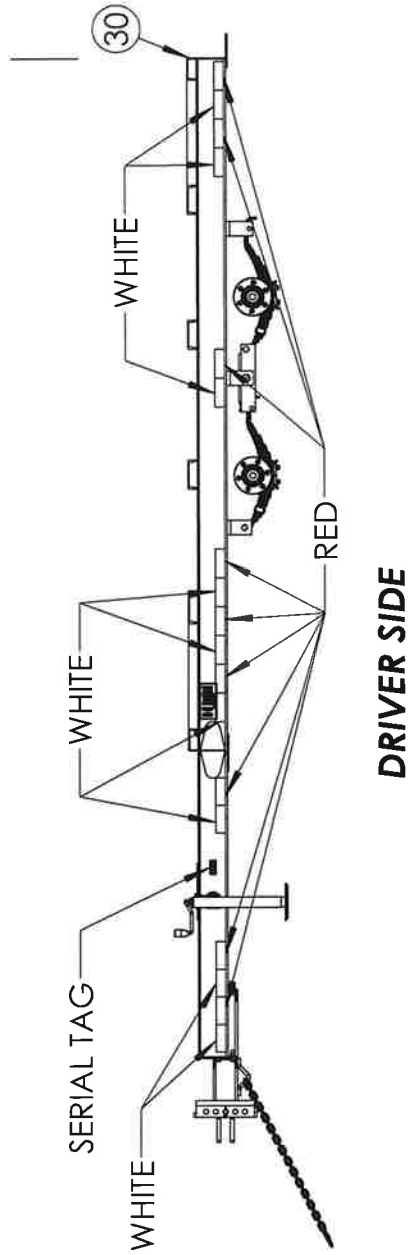
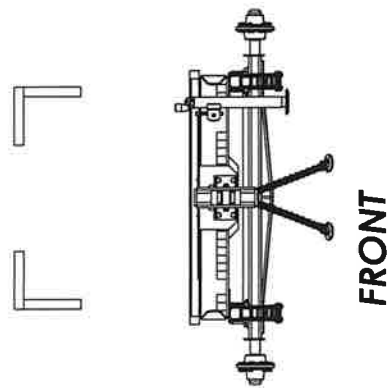
AG1250 FLAT FRAME

PART ILLUSTRATION

P/N: 41000052



AG1250 FLAT FRAME DECAL LAYOUT



AG1250 FLAT FRAME OPTIONS

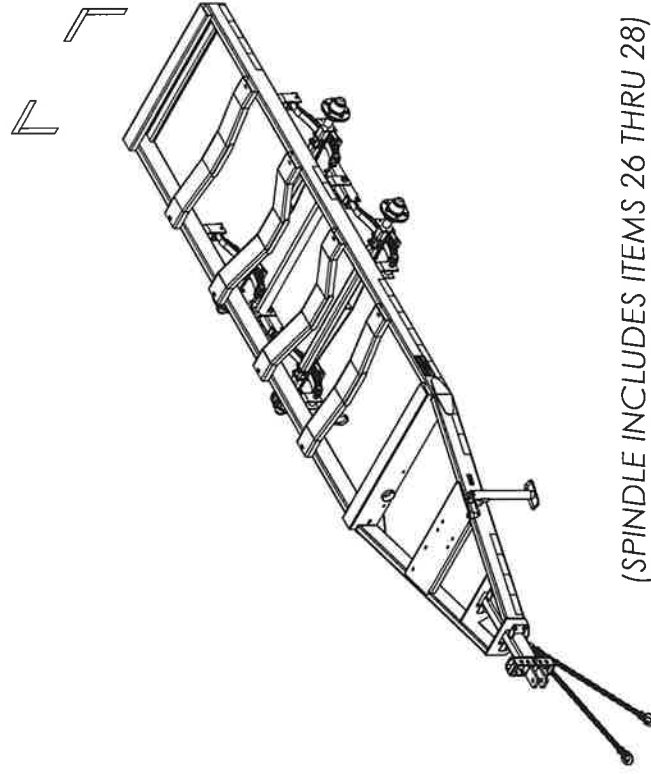
TIRE PACKAGE OPTIONS		
PART NUMBER	DESCRIPTION	QTY
47005809	10 X 15 RIM ONLY 6 ON 6	4
40004	12.5L X 15 10-PLY TIRE MOUNTED ON 10" RIM	4
40034	12 X 15 10 PLY IMP. TREAD HWY SERVICE TIRE MTD ON RIM	4
MISC OPTIONS		
PART NUMBER	DESCRIPTION	QTY
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
41002516	2 5/16" BALL HITCH PACKAGE	1
47018794	FENDER SET	1
47999462	BOLT ON STEP	1

AG1250 DRAINABLE FRAME

PART LISTING

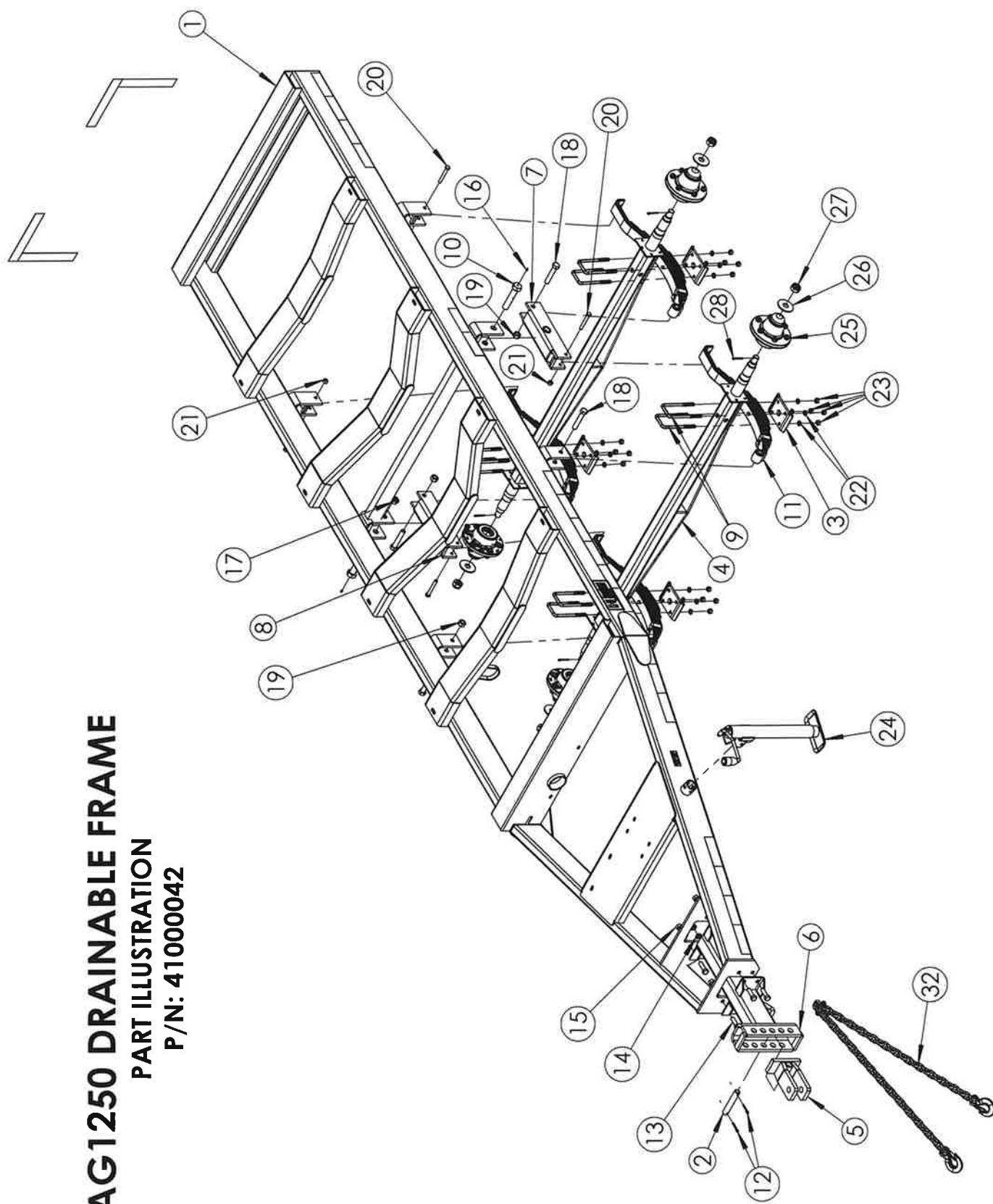
P/N: 41000042

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47009349	FRAME, 1000 GAL TANK	1
2	47001319	CLEVIS PIN	1
3	47001276	CLAMP PLATE, U-BOLT	4
4	47009269	AXLE WELDMENT	2
5	47009285	HITCH CLEVIS	1
6	47009359	POLE, SOLID-TANDEM	1
7	47009527	SPRING EQUALIZER, LH	1
8	47309527	SPRING EQUALIZER, RH	1
9	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
10	47001528	SPRING BOLT, 1-8NC X 5 LG	2
11	47005007	LEAF SPRING (7) LEAF	4
12	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18891600	WASHER, LOCK 5/8 ZC	8
15	18417900	NUT, 5/8 NC	8
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
19	18418400	NUT HX 3/4 NC ZC	4
20	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
21	18457650	NUT CTR LOCK 1/2 ZP ZC	4
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	600378	JACK, TWL158 DTSF W/P&C	1
25	47009618	HUB COMPLETE (W/O BRAKES)	4
26	18000017	SPINDLE WASHER 1 X .187	4
27	18489100	SLOTTED NUT	4
28	18560828	COTTER PIN 3/16 X 1 3/4	4
29	22-4	REFLECTIVE TAPE KIT	1
30	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
32	47000314	SAFETY CHAIN W/ HARDWARE	1



(SPINDLE INCLUDES ITEMS 26 THRU 28)

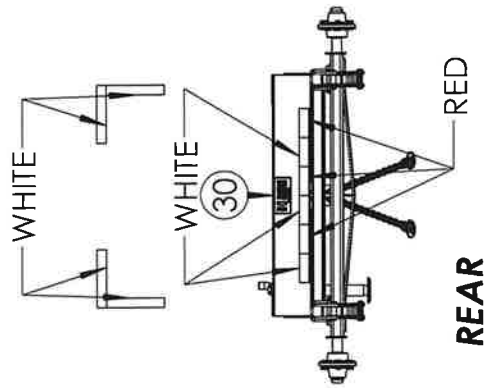
AG1250 DRAINABLE FRAME PART ILLUSTRATION P/N: 41000042



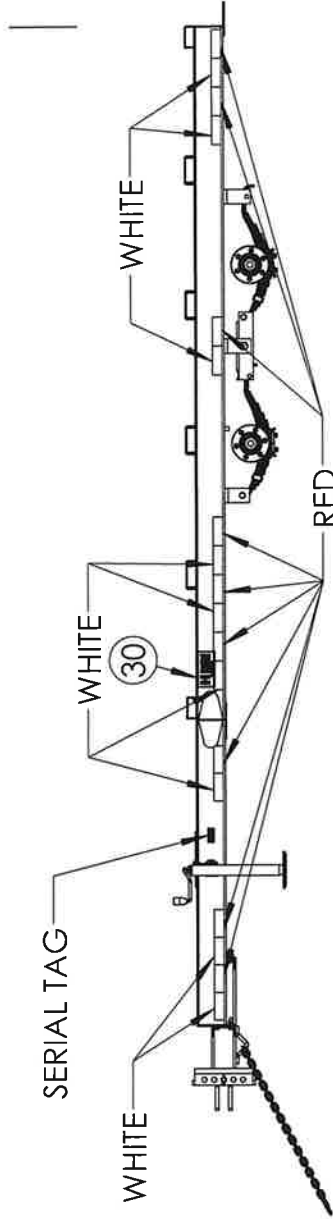
AG1250 DRAINABLE FRAME DECAL LAYOUT



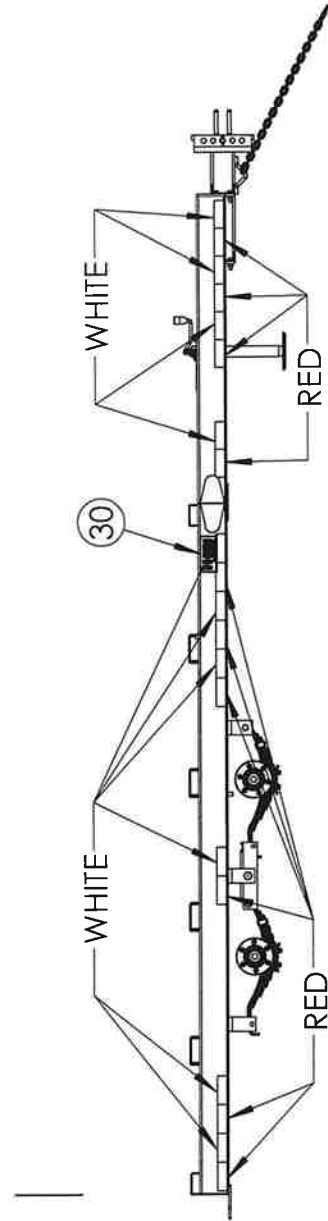
FRONT



REAR



DRIVER SIDE



PASSENGER SIDE

AG1250 DRAINABLE FRAME OPTIONS

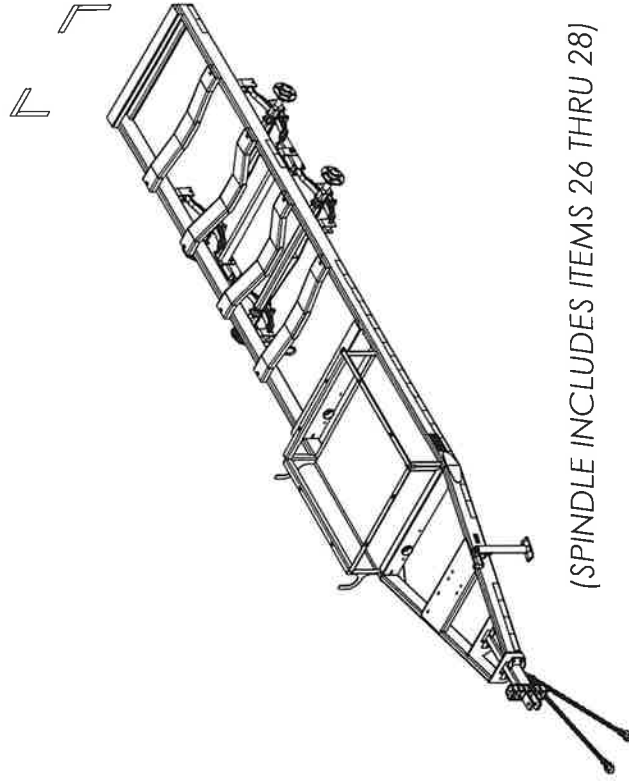
TIRE PACKAGE OPTIONS		
PART NUMBER	DESCRIPTION	QTY
47005809	10 X 15 RIM ONLY 6 ON 6	4
40004	12.5L X 15 10-PLY TIRE MOUNTED ON 10" RIM	4
40034	12 X 15 10 PLY IMP. TREAD HWY SERVICE TIRE MTD ON RIM	4
MISC OPTIONS		
PART NUMBER	DESCRIPTION	QTY
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
41002516	2 5/16" BALL HITCH PACKAGE	1
47018794	FENDER SET	1
47999462	BOLT ON STEP	1
47029223	HOOP KIT FOR 1250 SNYDER (DRAINABLE)	1

SR1000 DRAINABLE FRAME

PART LISTING

P/N: 40001012

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008831	FRAME, AG1000 DRAINABLE EXT.	1
2	47001319	CLEVIS PIN	1
3	47001276	CLAMP PLATE, U-BOLT	4
4	47003102	AXLE WELDMENT	2
5	47009285	HITCH CLEVIS	1
6	47009359	POLE, SOLID-TANDEM	1
7	47009527	SPRING EQUALIZER, LH	1
8	47309527	SPRING EQUALIZER, RH	1
9	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
10	47001528	SPRING BOLT, 1-8NC X 5 LG	2
11	47005005	LEAF SPRING, 5 LEAF	4
12	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18891600	WASHER. LOCK 5/8 ZC	8
15	18417900	NUT, 5/8 NC	8
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
19	18418400	NUT HX 3/4 NC ZC	4
20	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
21	18457650	NUT CTR LOCK 1/2 ZP ZC	4
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	600378	JACK, TWL158 DTSF W/P&C	1
25	47009611	HUB COMPLETE (W/O BRAKES)	4
26	18000017	SPINDLE WASHER 1 X .187	4
27	18489100	SLOTTED NUT	4
28	18560828	COTTER PIN 3/16 X 1 3/4	4
29	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
31	47000314	SAFETY CHAIN W/ HARDWARE	1
32	28-4	REFLECTIVE TAPE KIT	1

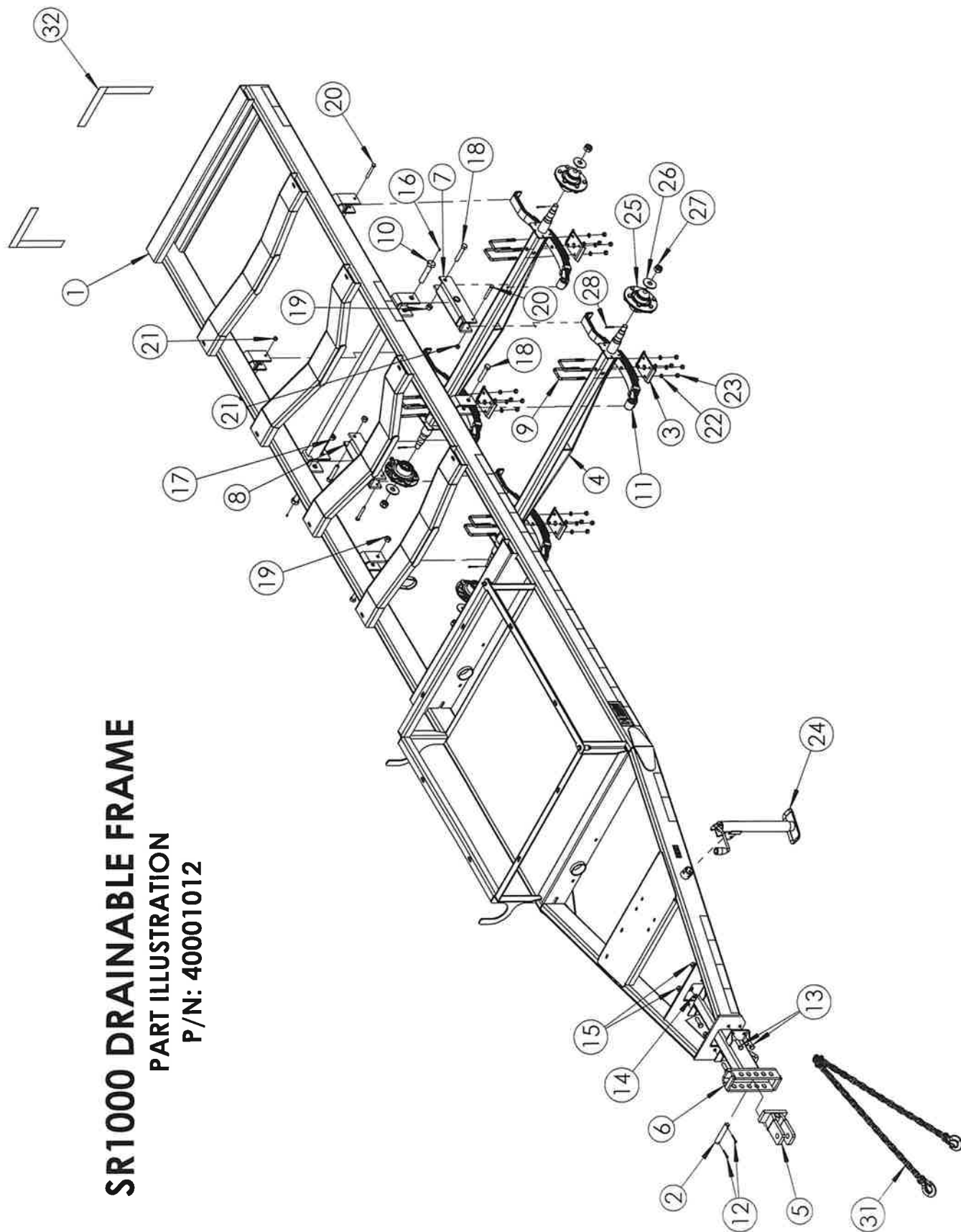


(SPINDLE INCLUDES ITEMS 26 THRU 28)

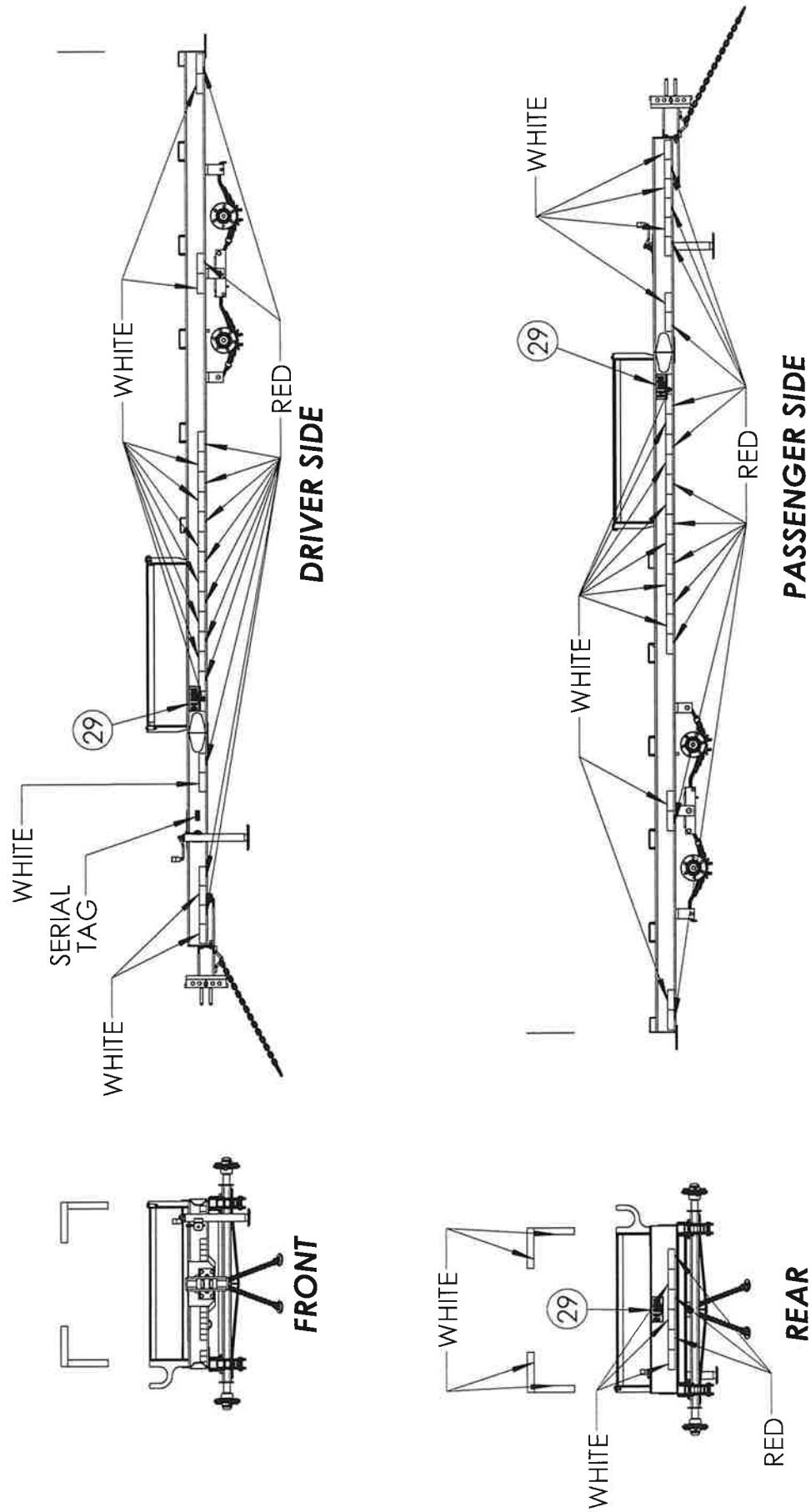
SR1000 DRAINABLE FRAME

PART ILLUSTRATION

P/N: 40001012



SR1000 DRAINABLE FRAME DECAL LAYOUT



SR1000 DRAINABLE FRAME OPTIONS

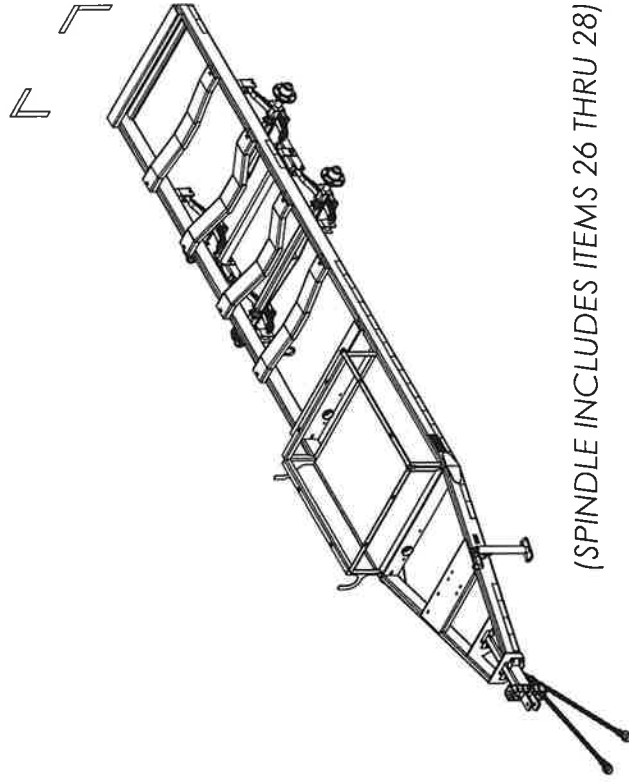
TIRE PACKAGE OPTIONS		
PART NUMBER	DESCRIPTION	QTY
47005809	10 X 15 RIM ONLY 6 ON 6	4
40003	11L X 15 8-PLY TUBELESS MTD ON 8" RIM	4
40004	12.5L X 15 10-PLY TIRE MOUNTED ON 10" RIM	4
40034	12 X 15 10 PLY IMP. TREAD HWY SERVICE TIRE MTD ON RIM	4
MISC OPTIONS		
PART NUMBER	DESCRIPTION	QTY
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
41002516	2 5/16" BALL HITCH PACKAGE	1
47018794	FENDER SET	1
47999462	BOLT ON STEP	1
47028891	HOOP KIT FOR 1000 SNYDER DRAINABLE	1

SR1250 DRAINABLE FRAME

PART LISTING

P/N: 41021250

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008831	FRAME, AG1000 DRAINABLE EXT.	1
2	47001319	CLEVIS PIN	1
3	47001276	CLAMP PLATE, U-BOLT	4
4	47009269	AXLE WELDMENT	2
5	47009285	HITCH CLEVIS	1
6	47009359	POLE, SOLID-TANDEM	1
7	47009527	SPRING EQUALIZER, LH	1
8	47309527	SPRING EQUALIZER, RH	1
9	47001271	U-BOLT, 1/2-20NF X 2-1/2 X 6-3/4	8
10	47001528	SPRING BOLT, 1-8NC X 5 LG	2
11	47005007	LEAF SPRING (7) LEAF	4
12	18561026	COTTER PIN 1/4 X 1 1/2" ZC	2
13	18057930	BOLT HX 5/8 X 2 GR 8 NC ZC	8
14	18891600	WASHER, LOCK 5/8 ZC	8
15	18417900	NUT, 5/8 NC	8
16	18901805	GREASE ZERK, 1/4-28, STRAIGHT	2
17	18449000	NUT HX JAM 1" NCSC	2
18	18058443	BOLT HX 3/4 X 4 GR 5 NC ZC	4
19	18418400	NUT HX 3/4 NC ZC	4
20	18057442	BOLT, HEX HD 1/2-13 X 3 1/2 LG	4
21	18457650	NUT CTR LOCK 1/2 ZP ZC	4
22	18891400	WASHER, 1/2 LOCK ZC	16
23	18437500	NUT, HEX 1/2-20	16
24	600378	JACK, TWL158 DTSF W/P&C	1
25	47009618	HUB COMPLETE (W/O BRAKES)	4
26	18000017	SPINDLE WASHER 1 X .187	4
27	18489100	SLOTTED NUT	4
28	18560828	COTTER PIN 3/16 X 1 3/4	4
29	699107L	HEARTLAND AG SYSTEMS DECAL (MEDIUM)	3
31	47000314	SAFETY CHAIN W/ HARDWARE	1
32	28-4	REFLECTIVE TAPE KIT	1

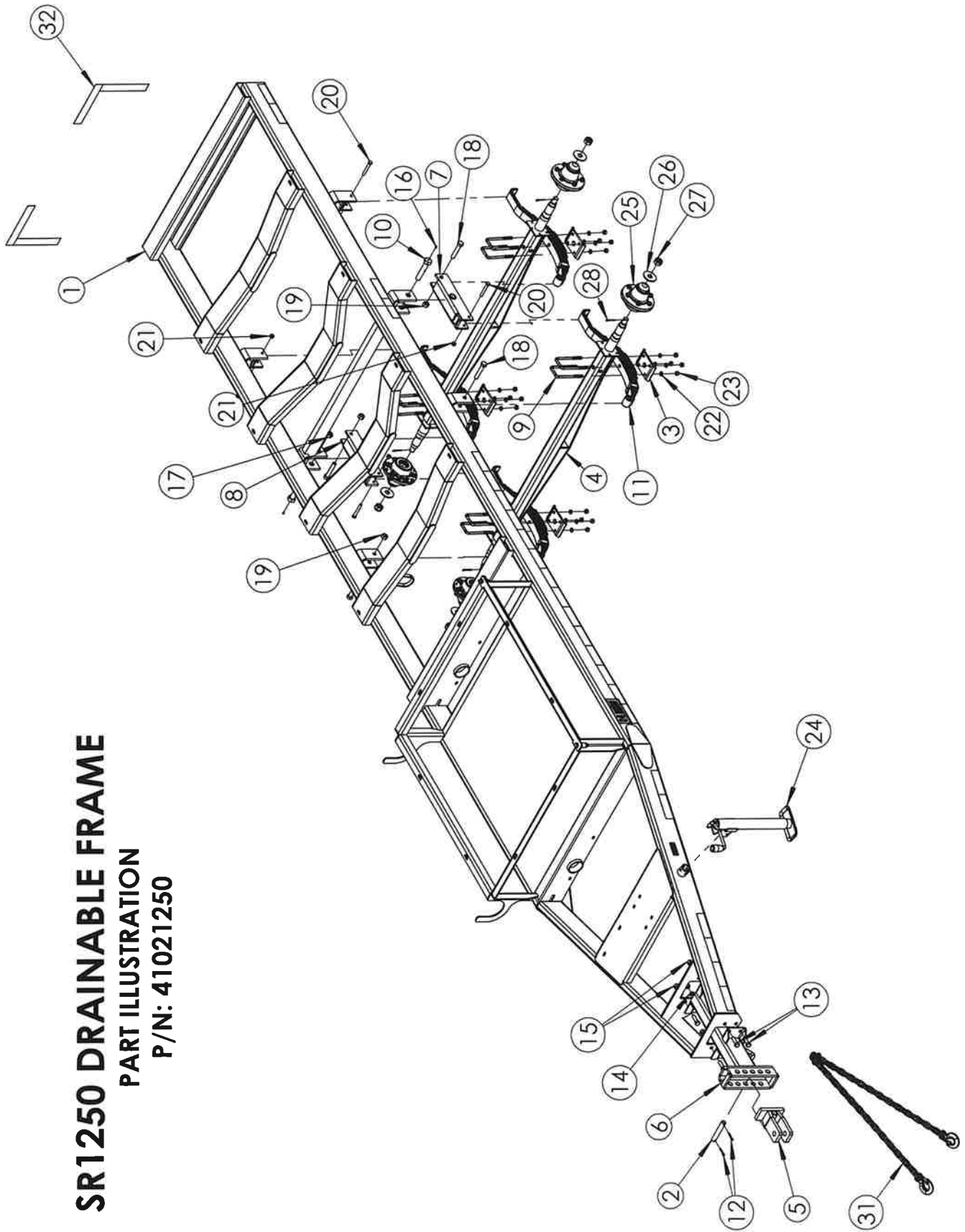


(SPINDLE INCLUDES ITEMS 26 THRU 28)

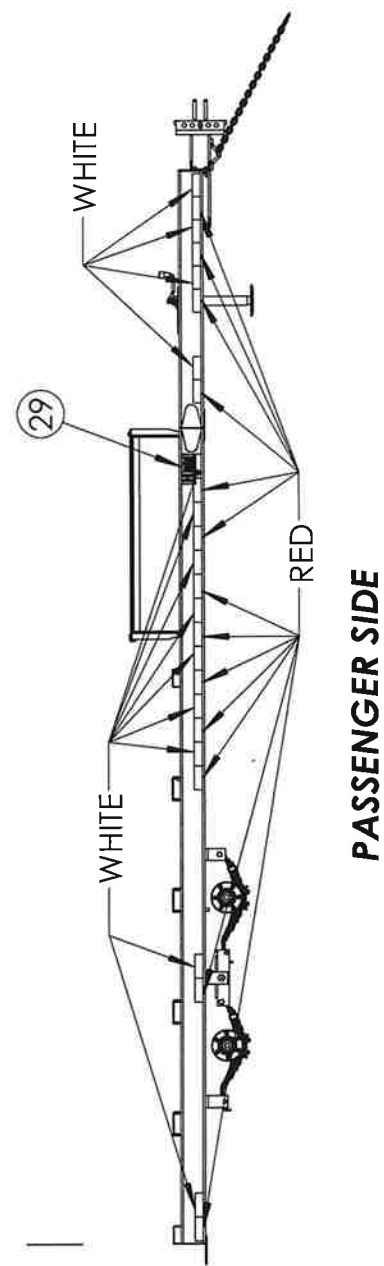
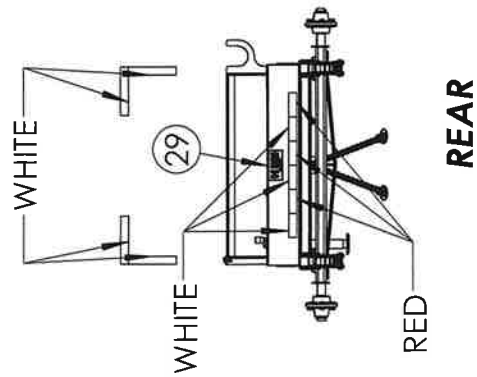
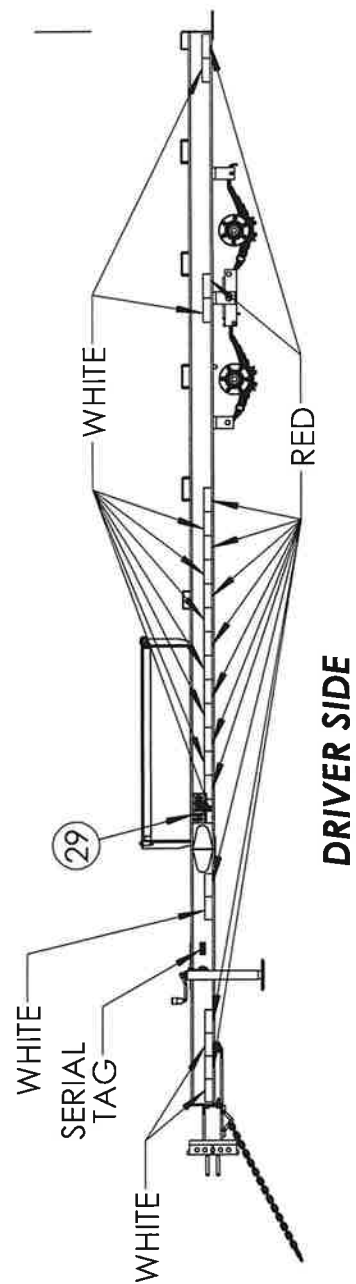
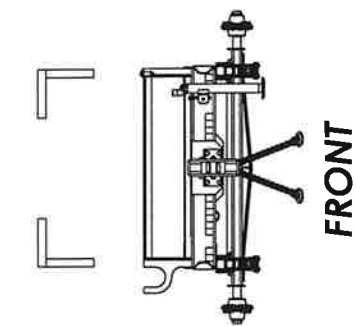
SR1250 DRAINABLE FRAME

PART ILLUSTRATION

P/N: 41021250



SR1250 DRAINABLE FRAME DECAL LAYOUT



SR1250 DRAINABLE FRAME OPTIONS

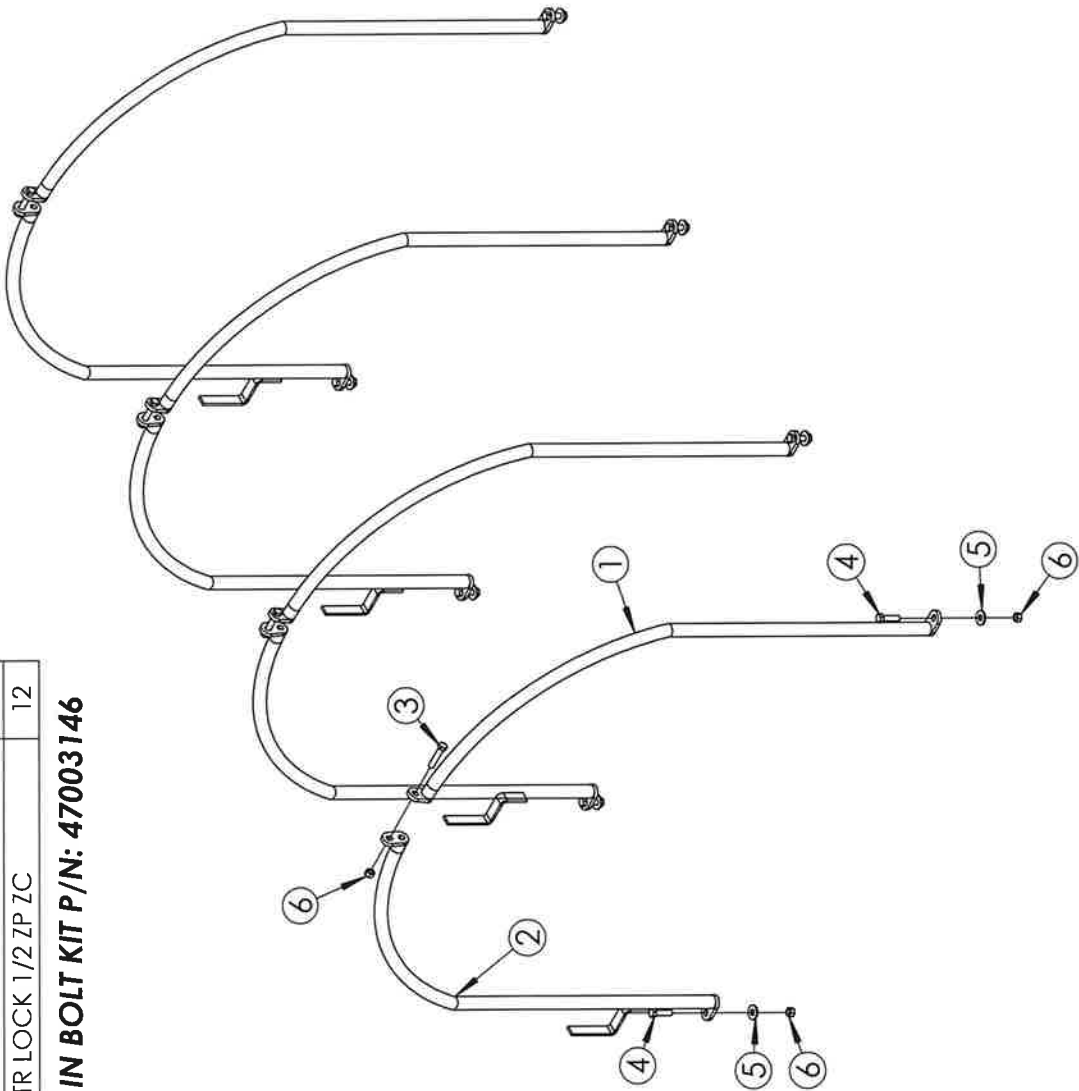
TIRE PACKAGE OPTIONS		
PART NUMBER	DESCRIPTION	QTY
47005809	10 X 15 RIM ONLY 6 ON 6	4
40004	12.5L X 15 10-PLY TIRE MOUNTED ON 10" RIM	4
40034	12 X 15 10 PLY IMP. TREAD HWY SERVICE TIRE MTD ON RIM	4
MISC OPTIONS		
PART NUMBER	DESCRIPTION	QTY
20110011	LIGHT PACKAGE LED (7 WAY RV)	1
41002516	2 5/16" BALL HITCH PACKAGE	1
47018794	FENDER SET	1
47999462	BOLT ON STEP	1
47029223	HOOP KIT FOR 1250 SNYDER (DRAINABLE)	1

HOOP SET, 1025 SNYDER DRAINABLE

P/N: 47028891

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008891	HOOP HALF	4
2	47008894	HOOP HALF W/ BRKT (SNYDER 1000 GAL)	4
3	18057434	BOLT, HX CAP 1/2-13 X 2 1/2 LG	4
4	18057430	BOLT, HX CAP 1/2-13 X 2 LG	8
5	18811400	WASHER, FLAT 1/2 ZC USS	8
6	18457650	NUT CTR LOCK 1/2 ZP ZC	12

ITEMS 3 THRU 6 ARE INCLUDED IN BOLT KIT P/N: 47003146

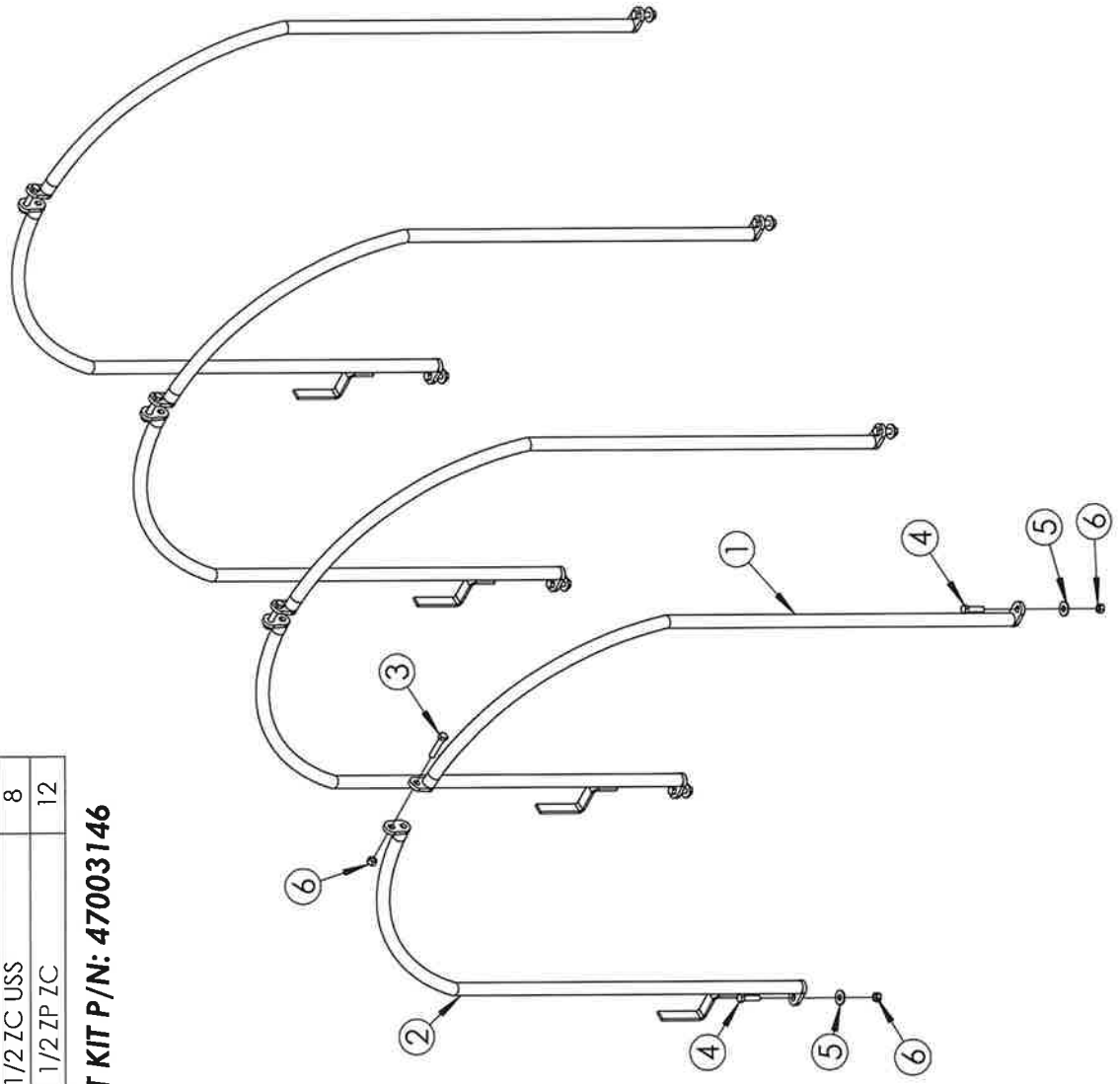


HOOP SET, 1250 SNYDER DRAINABLE

P/N: 47029223

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47999223	HOOP HALF	4
2	47009225	HOOP HALF W/ BRKT	4
3	18057434	BOLT, HX CAP 1/2-13 X 2 1/2 LG	4
4	18057430	BOLT, HX CAP 1/2-13 X 2 LG	8
5	18811400	WASHER, FLAT 1/2 ZC USS	8
6	18457650	NUT CTR LOCK 1/2 ZP ZC	12

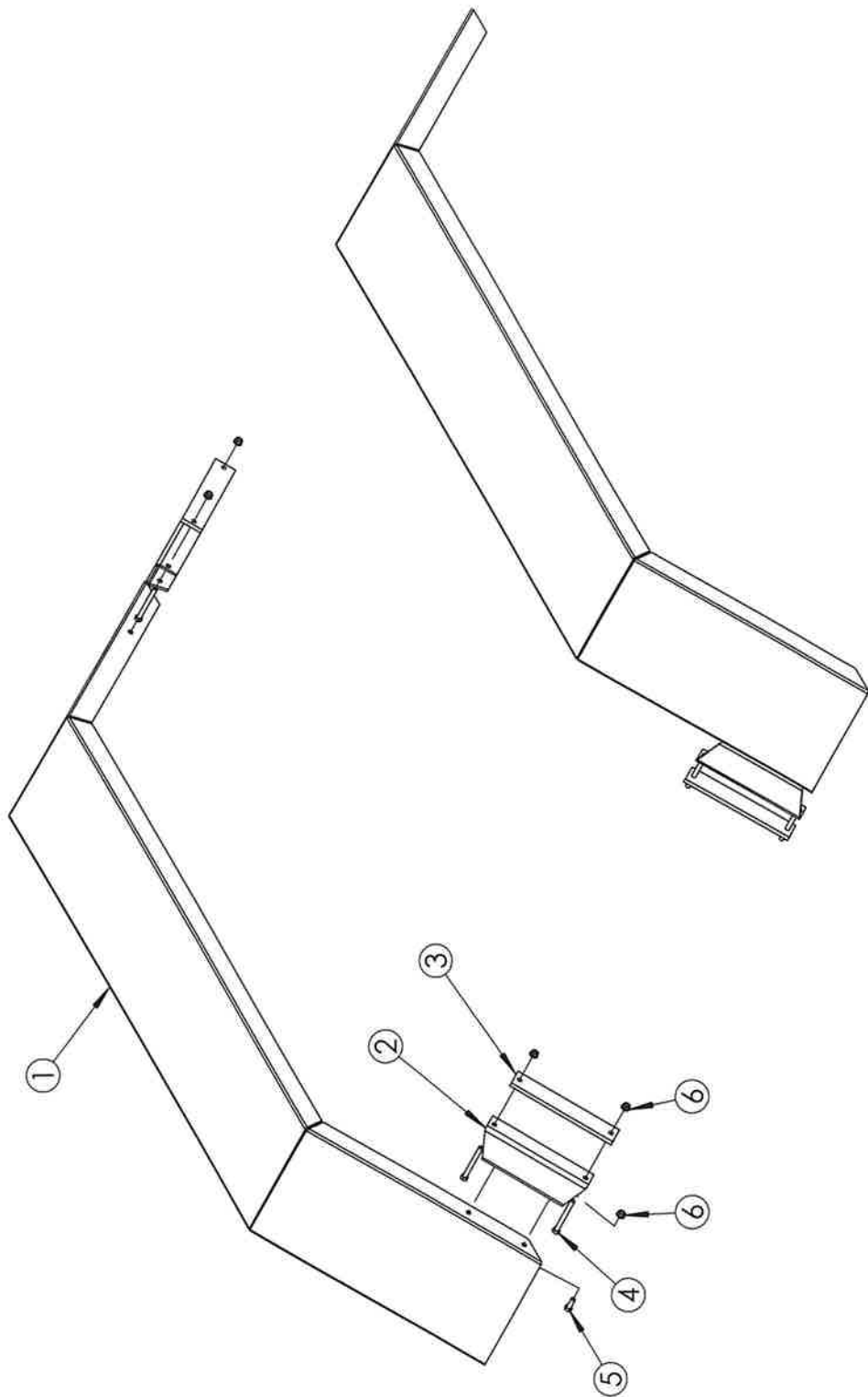
ITEMS 3 THRU 6 ARE INCLUDED IN BOLT KIT P/N: 47003146



AG/SR 1000/1250 FENDER KIT

P/N: 47018794

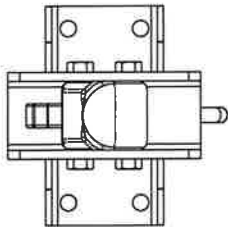
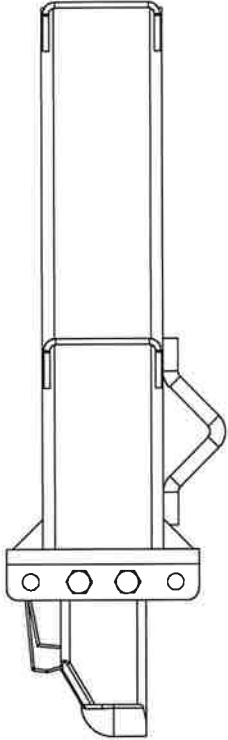
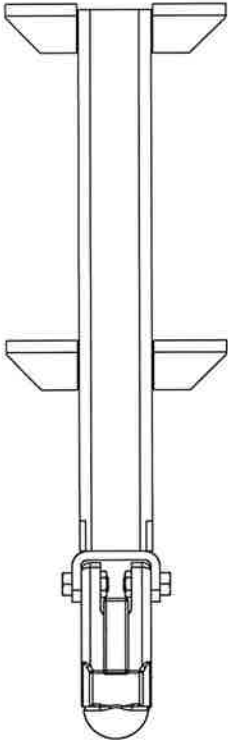
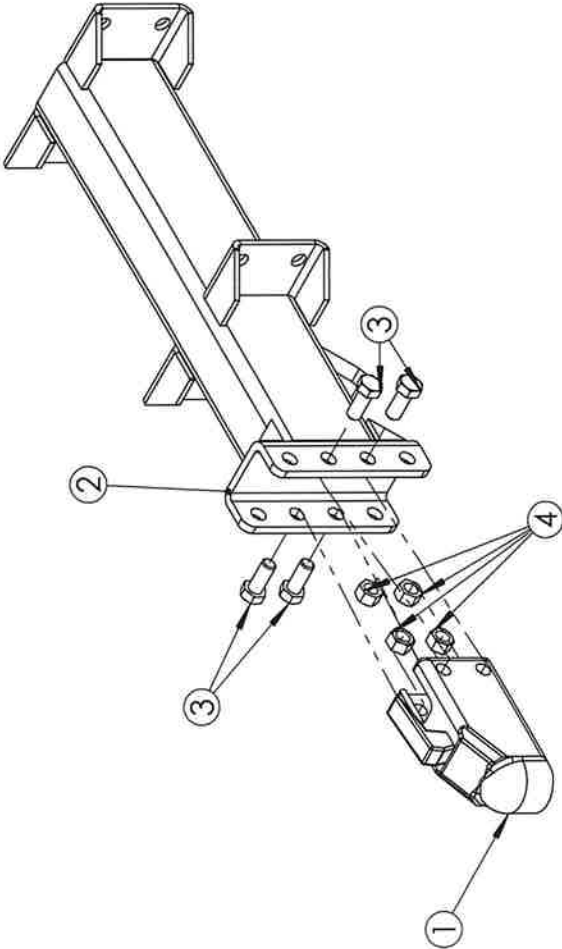
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47008794	FENDER	2
2	47019357	STAND-OFF BRACKET, FENDER	4
3	47009358	CLAMP PLATE, FENDER	4
4	18056842	BOLT, 3/8-16 X 3 1/2 LG ZC	8
5	18056822	BOLT HX CAP G5NCZC 3/8 X 1	8
6	18496800	FLANGE NUT, 3/8-16 NC	16



BALL HITCH KIT

P/N: 41002516

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	07678	2-5/16 EZ-LATCH COUPLER, 20K GVWR, DEMCO	1
2	47005306	POLE, SOLID-TANDEM (DEMCO END)	1
3	18097926	BOLT HX 5/8 X 1 1/2 GR 8 NC ZC	4
4	18458451	NUT, TOP LOCK, 5/8-11	4

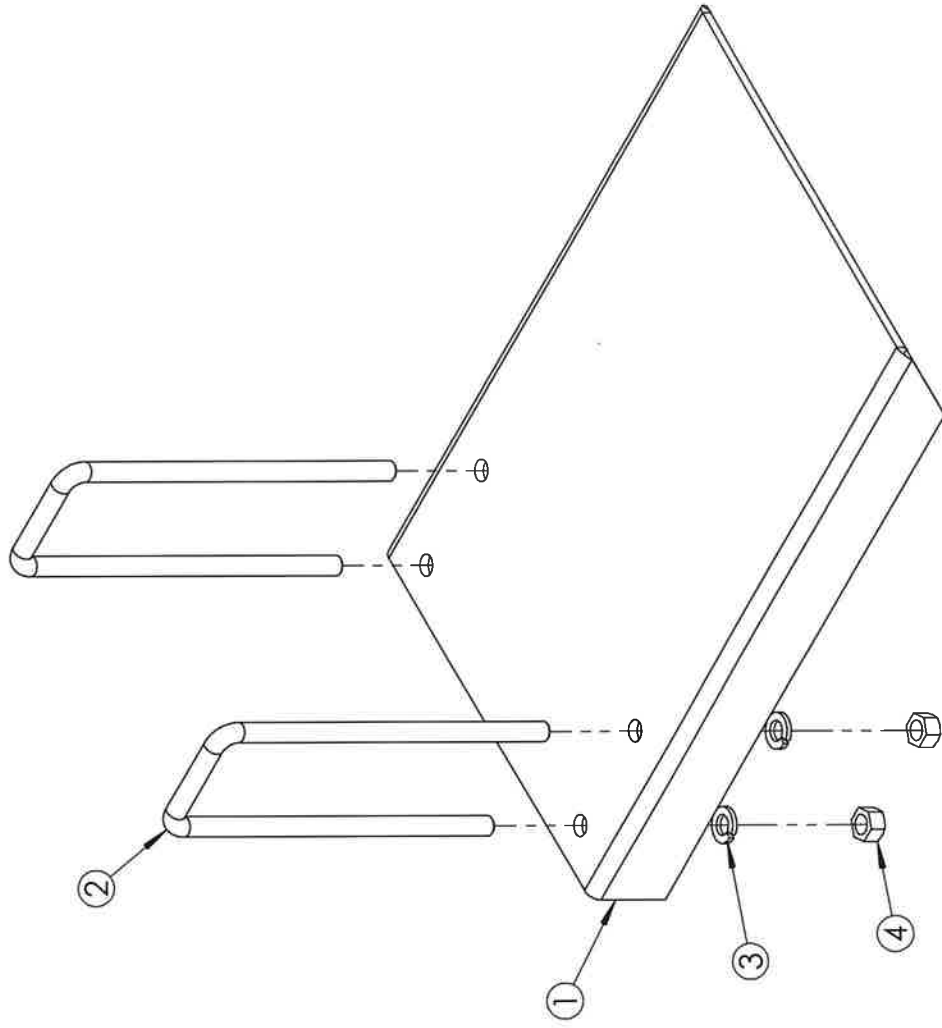


AG/SR 1000/1250 BOLT ON STEP

P/N: 47999462

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47009462	SERVICE STEP	1
2	47019463	U-BOLT, 3/8-16NC	2
3	18891200	LOCKWASHER, 3/8 ZC	4
4	18436800	NUT 3/8 NCZC	4

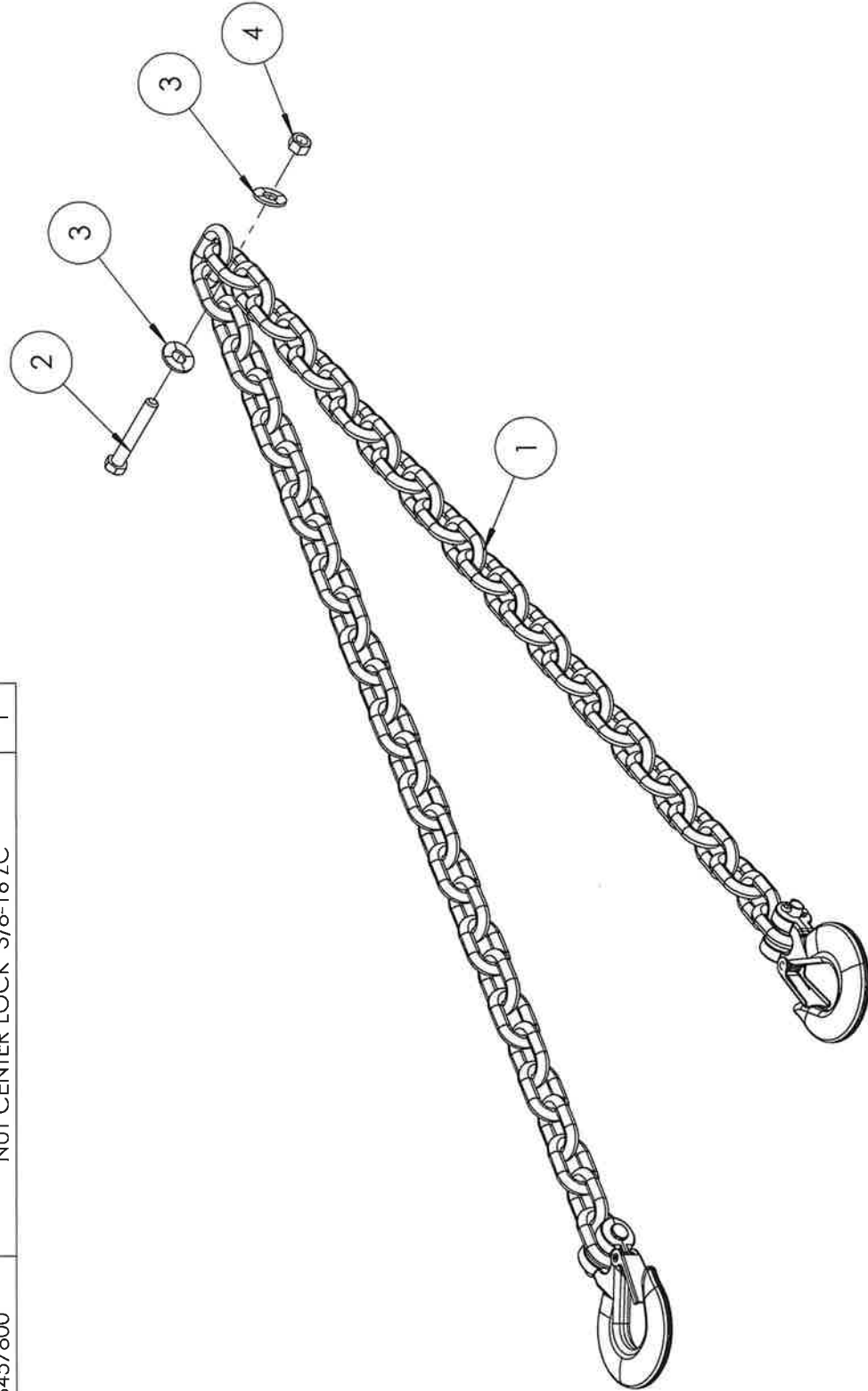
ITEMS 2 -4 ARE INCLUDED IN BOLT PACKAGE 47889462



SAFETY CHAIN W/ HARDWARE

P/N: 47000314

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47010314	SAFETY CHAIN W/ HOOKS 3/8 GR.70	1
2	18056834	BOLT, HEX 3/8-16 X 2 1/2 NC ZC	1
3	18811200	WASHER FLAT USS ZC 3/8	2
4	18457800	NUT CENTER LOCK 3/8-16 ZC	1

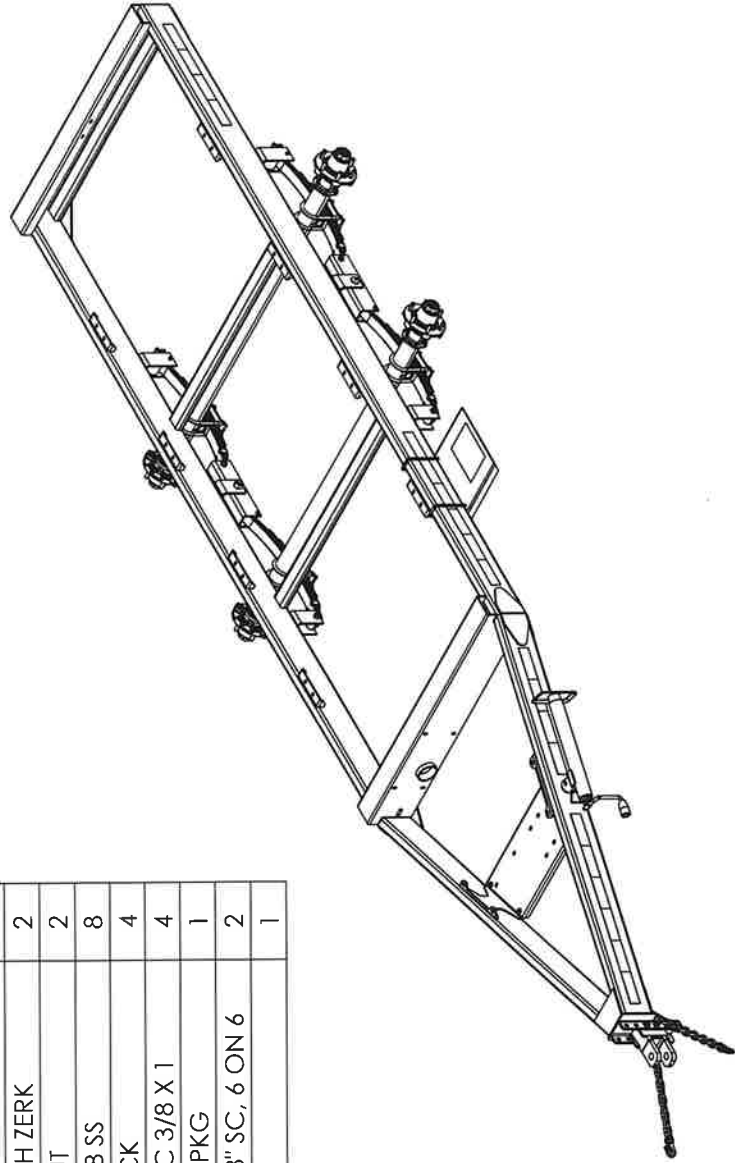


AG1252 BASE TRAILER

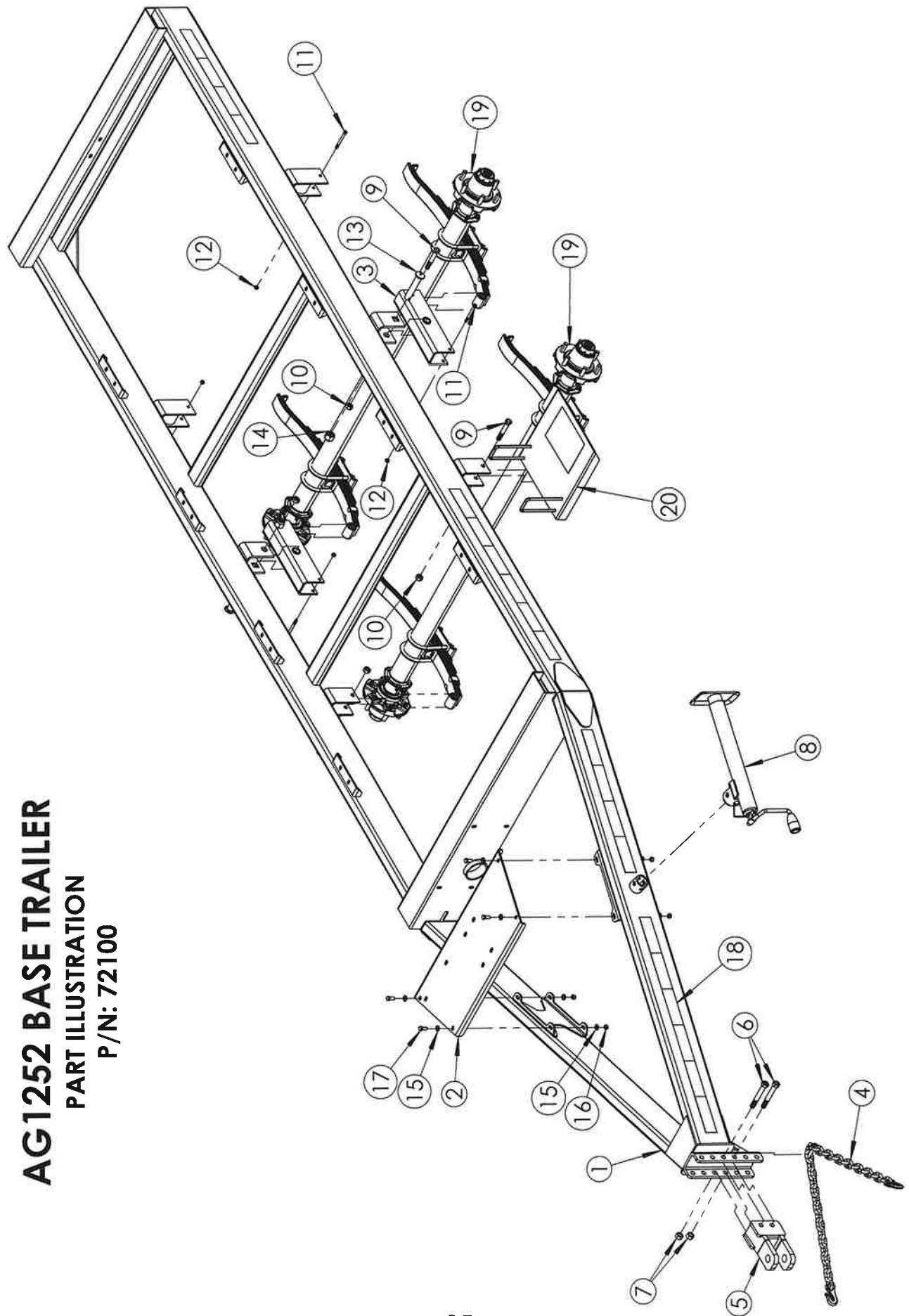
PART LISTING

P/N: 72100

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72032	BASE FRAME, AG1252	1
2	72044	PUMP PLATE, BOLT ON	1
3	70187	EQUALIZER	2
4	47000314	SAFETY CHAIN W/HARDWARE	1
5	12676-81	CLEVIS, 20K GVWR, BOLT ON, DEMCO	1
6	18058050	BOLT, 5/8 X 4-1/2 GR 8 NC ZC	2
7	18458451	NUT, TOP LOCK, 5/8-11	2
8	600378	JACK, TWL158 DTSF W/P&C	1
9	7-17	9/16-18 X 3-1/2 SHACKLE BOLT	4
10	6-7	9/16-18 TOP LOCK NUT	4
11	7-7	5/16-18 X 3-1/4 BOLT	4
12	6-11	5/16-18 CENTER LOCK NUT	4
13	7-1-1	EQUALIZER BOLT WITH ZERK	2
14	6-111	7/8-9 LOCK NUT	2
15	18991200	WASHER FLAT 3/8 SS	8
16	18459200	NUT 3/8 NYLOCK	4
17	18056822	BOLT HX CAP G5NCZC 3/8 X 1	4
18	22-4	REFLECTIVE TAPE PKG	1
19	72045	7K IDLER AXLE, 70.5 HF, 48" SC, 6 ON 6	2
20	72047	STEP KIT	1



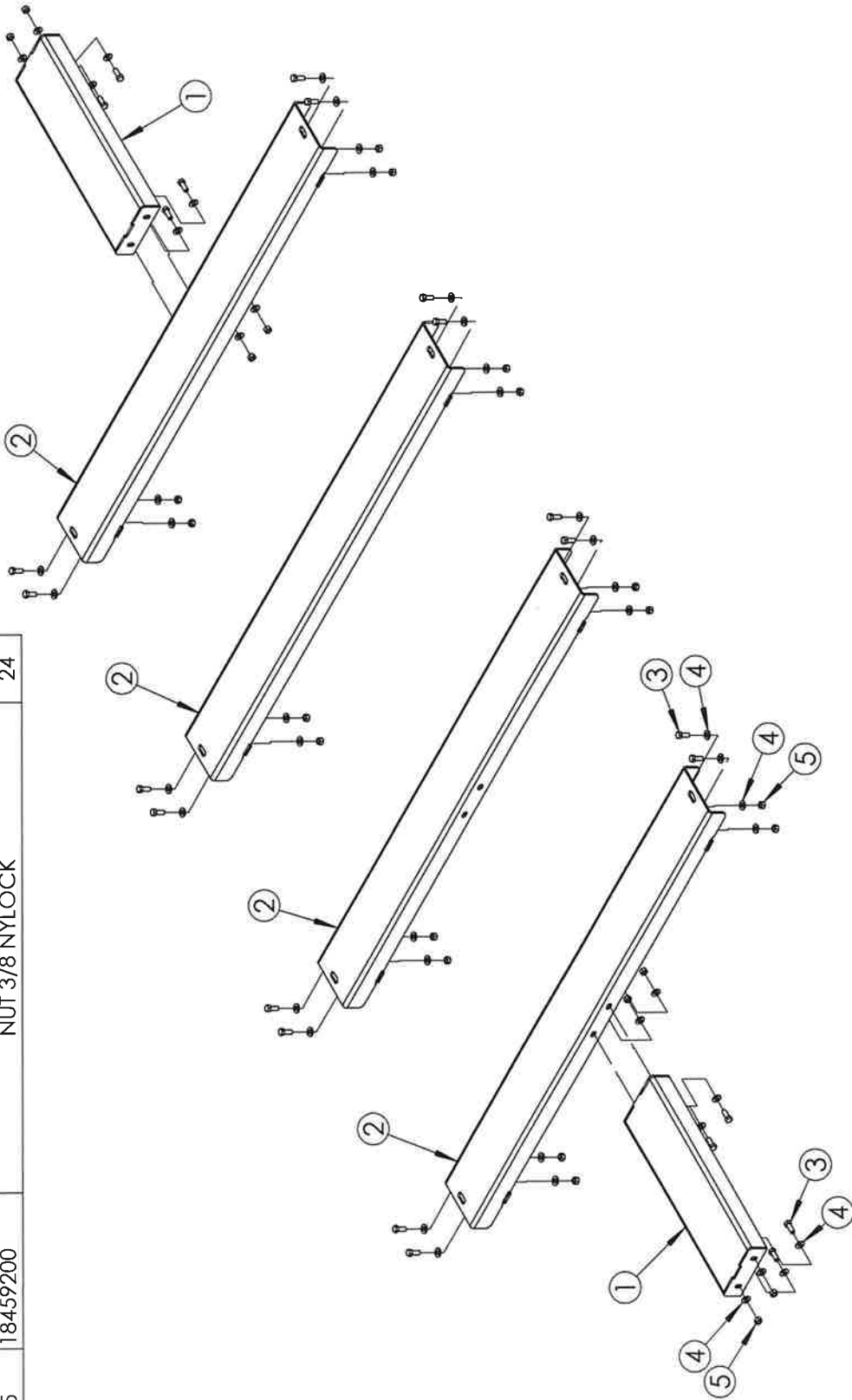
AG1252 BASE TRAILER PART ILLUSTRATION P/N: 72100



AG1252 FLAT BOTTOM TANK KIT

P/N: 72061

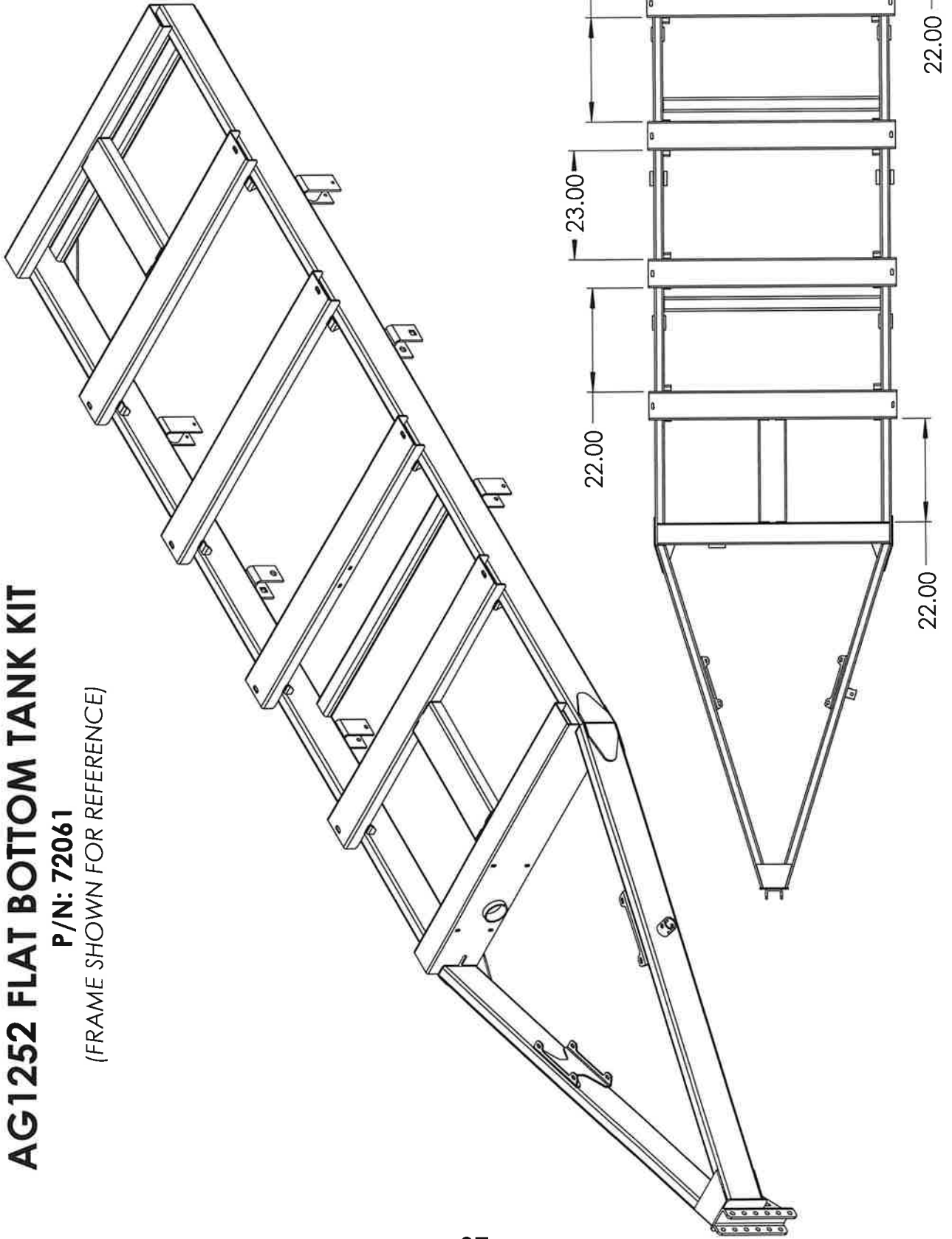
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72062	FLAT CHANNEL WELD, FRONT/REAR	2
2	72065	FLAT CHANNEL WLDT	4
3	18056822	BOLT HX CAP G5NCZC 3/8 X 1	24
4	18991200	WASHER FLAT 3/8 SS	48
5	18459200	NUT 3/8 NYLOCK	24



AG1252 FLAT BOTTOM TANK KIT

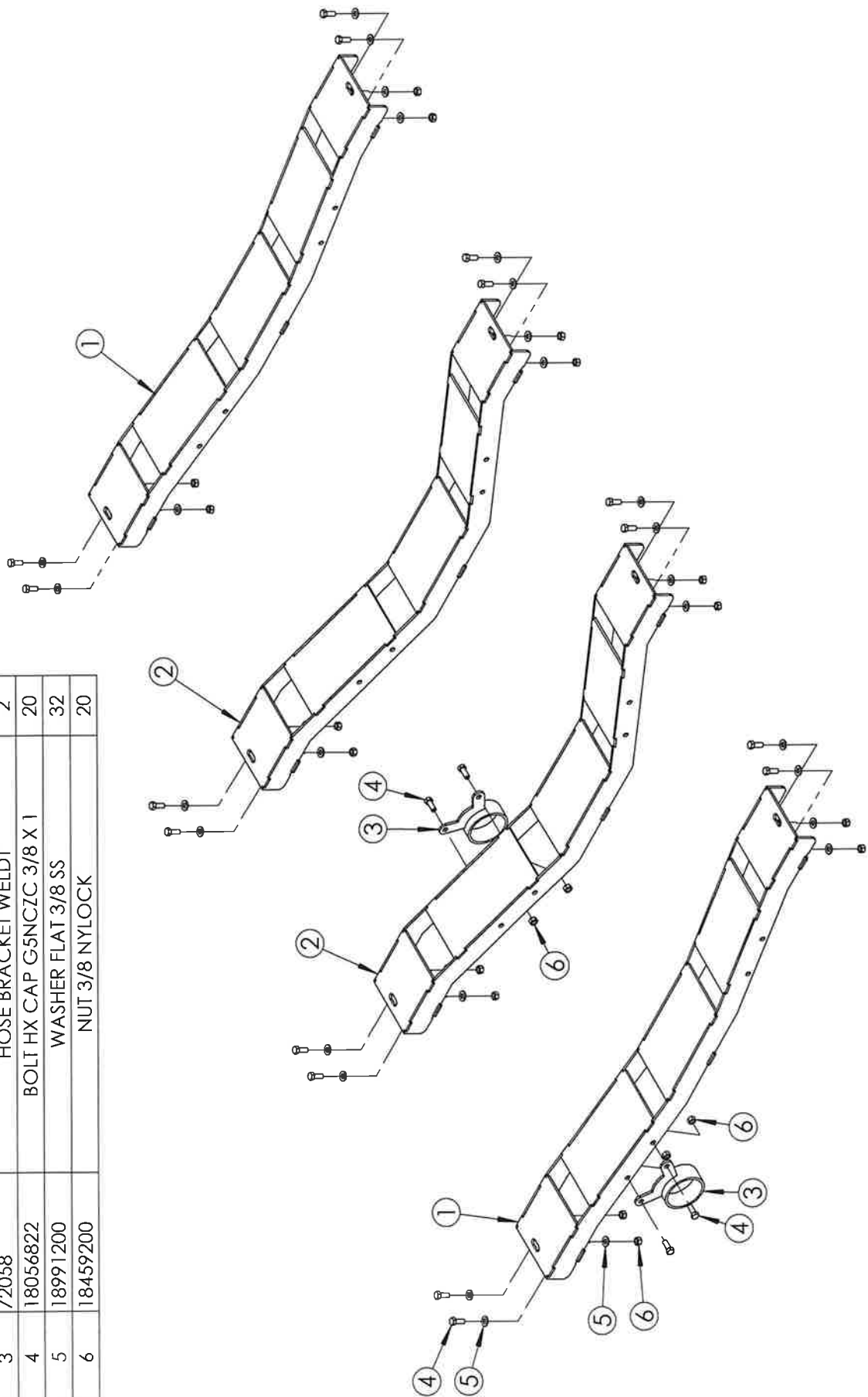
P/N: 72061

(FRAME SHOWN FOR REFERENCE)



AG1252 DRAINABLE TANK KIT
P/N: 72048

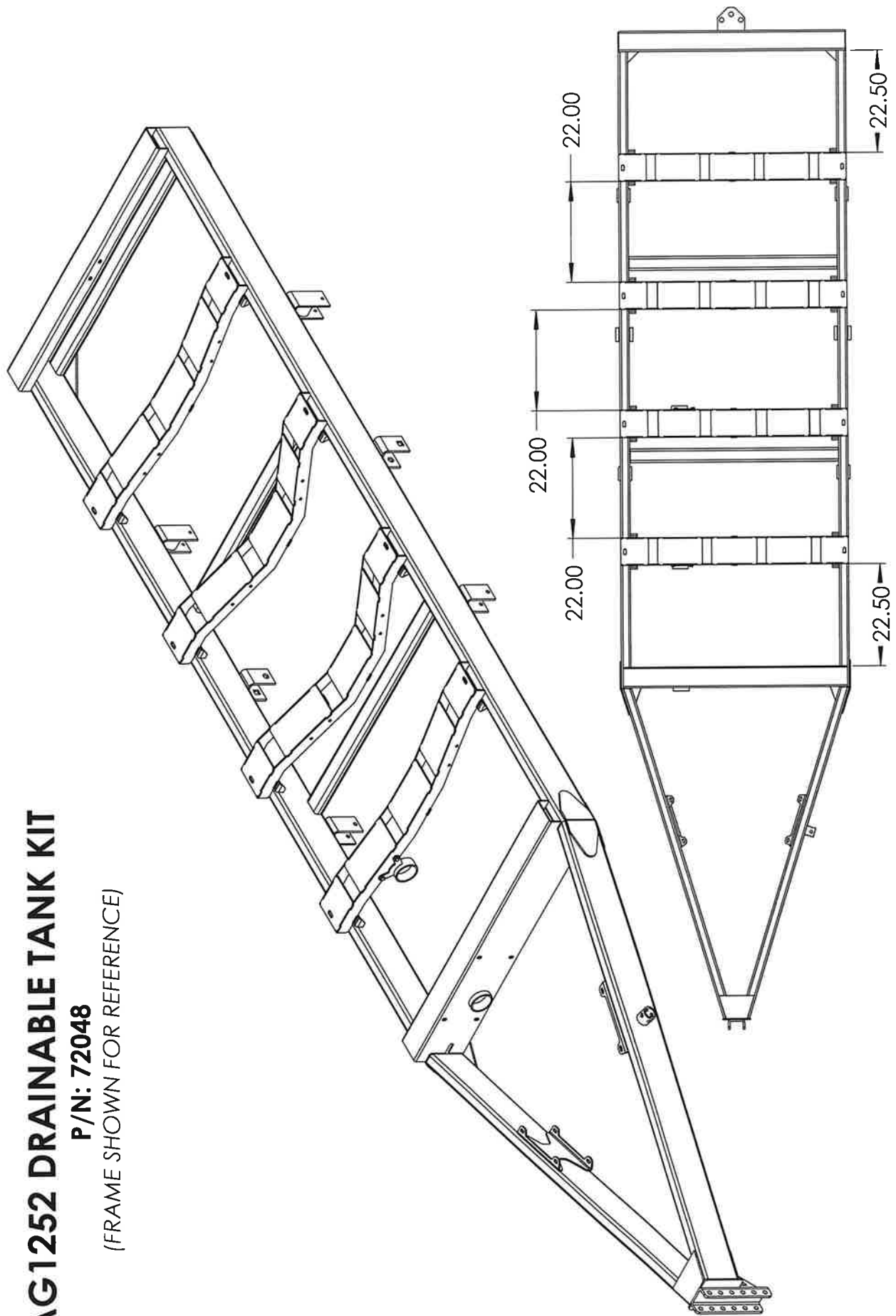
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72049	SHALLOW CHANNEL WELDT	2
2	72057	DEEP CHANNEL WELDT	2
3	72058	HOSE BRACKET WELDT	2
4	18056822	BOLT HX CAP G5NCZC 3/8 X 1	20
5	18991200	WASHER FLAT 3/8 SS	32
6	18459200	NUT 3/8 NYLOCK	20



AG1252 DRAINABLE TANK KIT

P/N: 72048

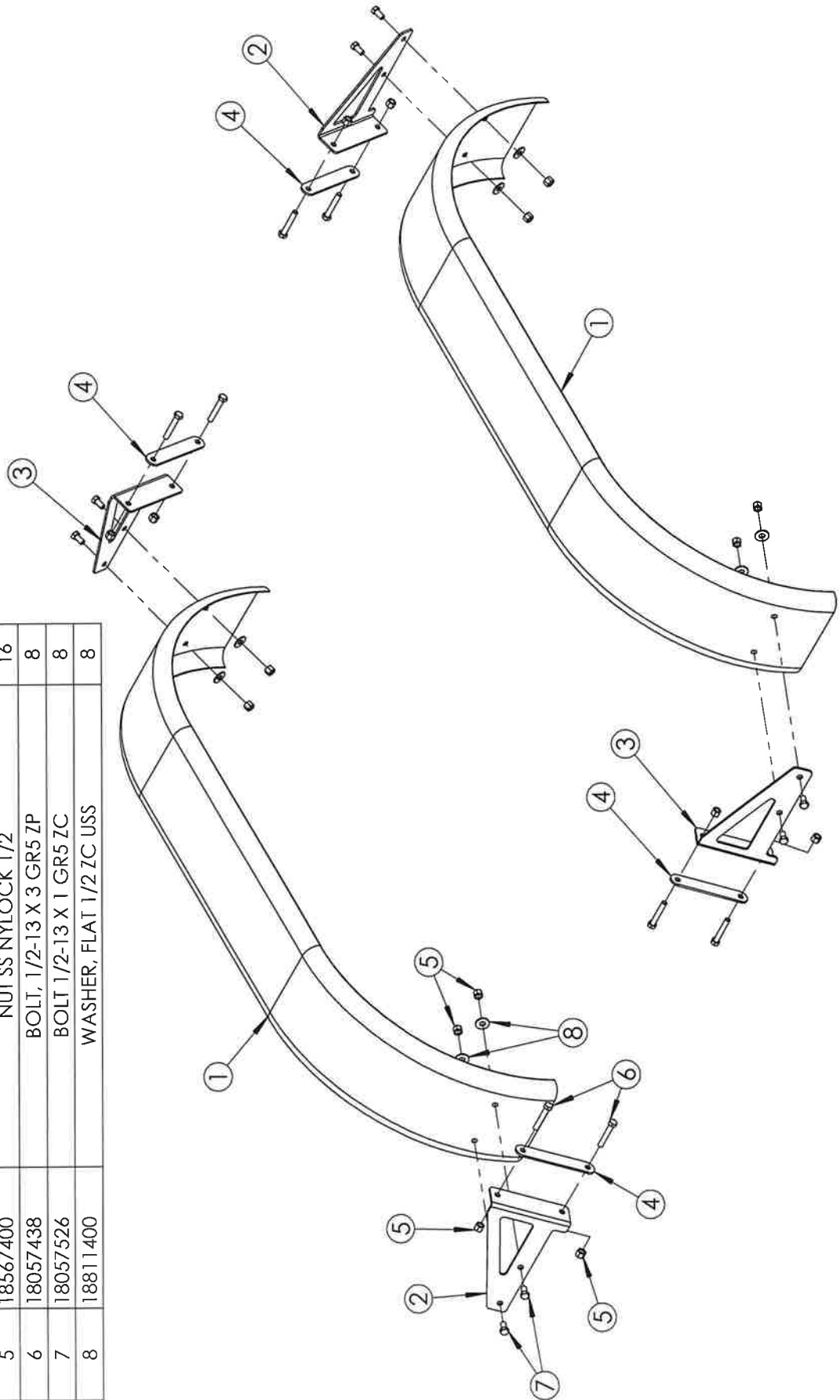
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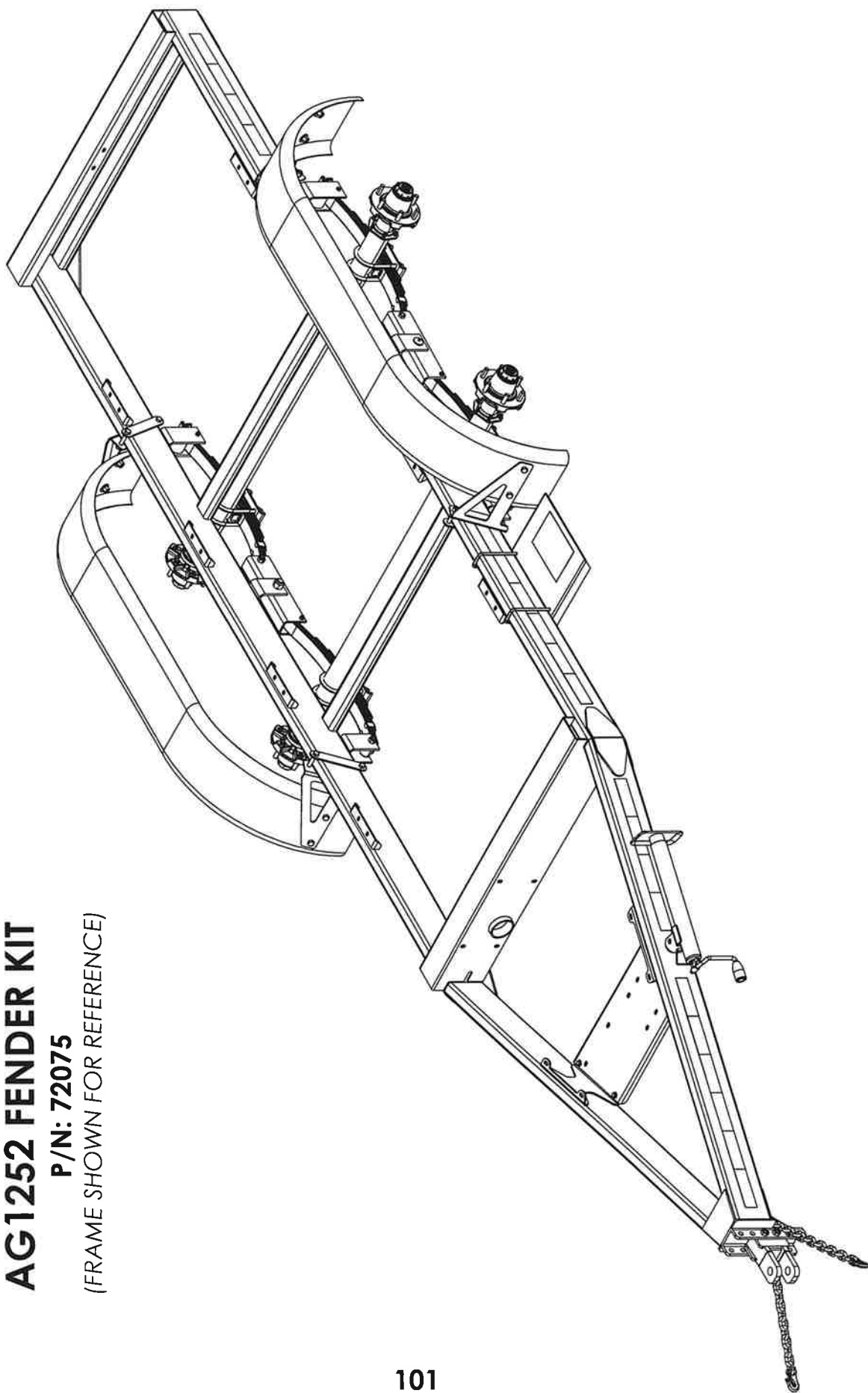
AG1252 FENDER KIT

P/N: 72075

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	70113	TANDEM STRAIGHT FENDER, 10.75W X 72L X 20.5H	2
2	72076	FENDER MOUNT 1	2
3	72077	FENDER MOUNT 2	2
4	72078	FENDER BRACKET BACK PLATE	4
5	18567400	NUT SS NYLOCK 1/2	16
6	18057438	BOLT, 1/2-13 X 3 GR5 ZP	8
7	18057526	BOLT 1/2-13 X 1 GR5 ZC	8
8	18811400	WASHER, FLAT 1/2 ZC USS	8

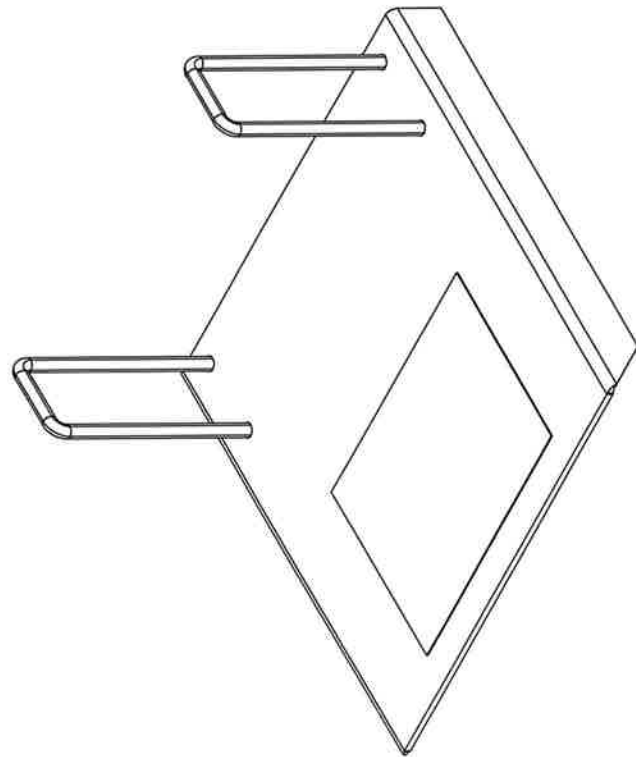


AG1252 FENDER KIT
P/N: 72075
(FRAME SHOWN FOR REFERENCE)

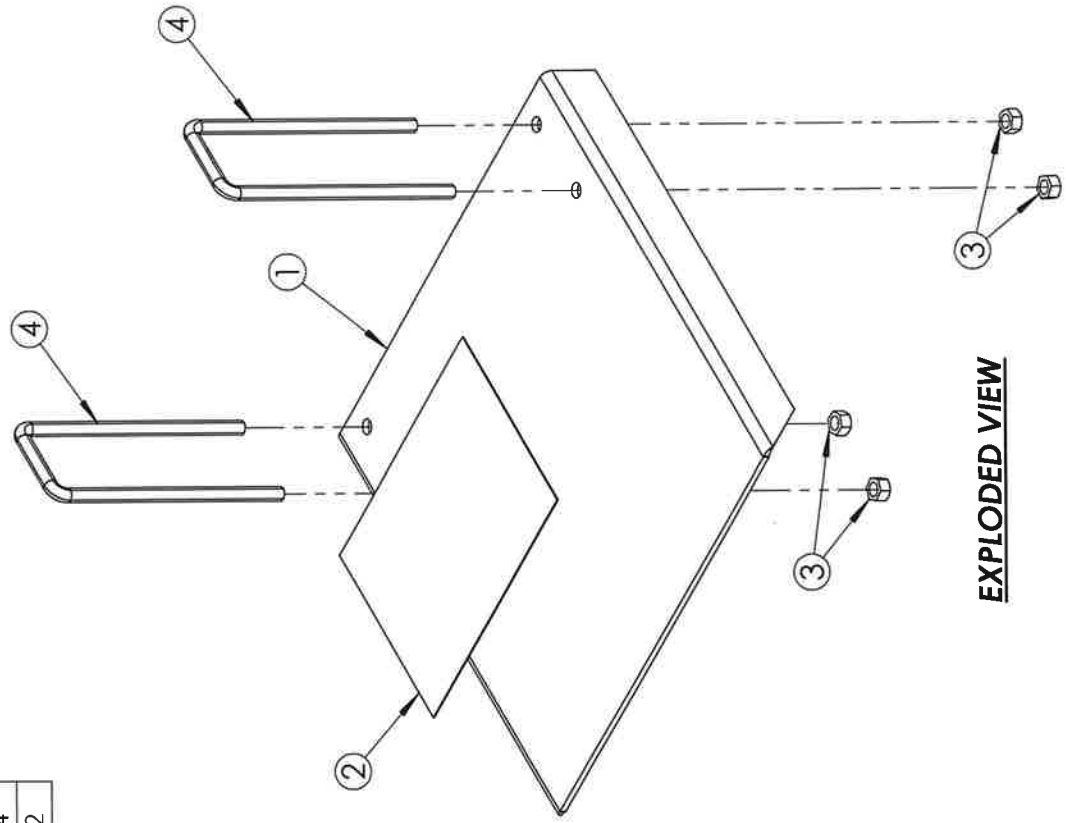


AG1252 STEP KIT P/N: 72047

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72046	SERVICE STEP	1
2	70126	STEP GRIP TAPE, 8 INCH	1
3	18459200	NUT 3/8 NYLOCK	4
4	47019463	U-BOLT	2



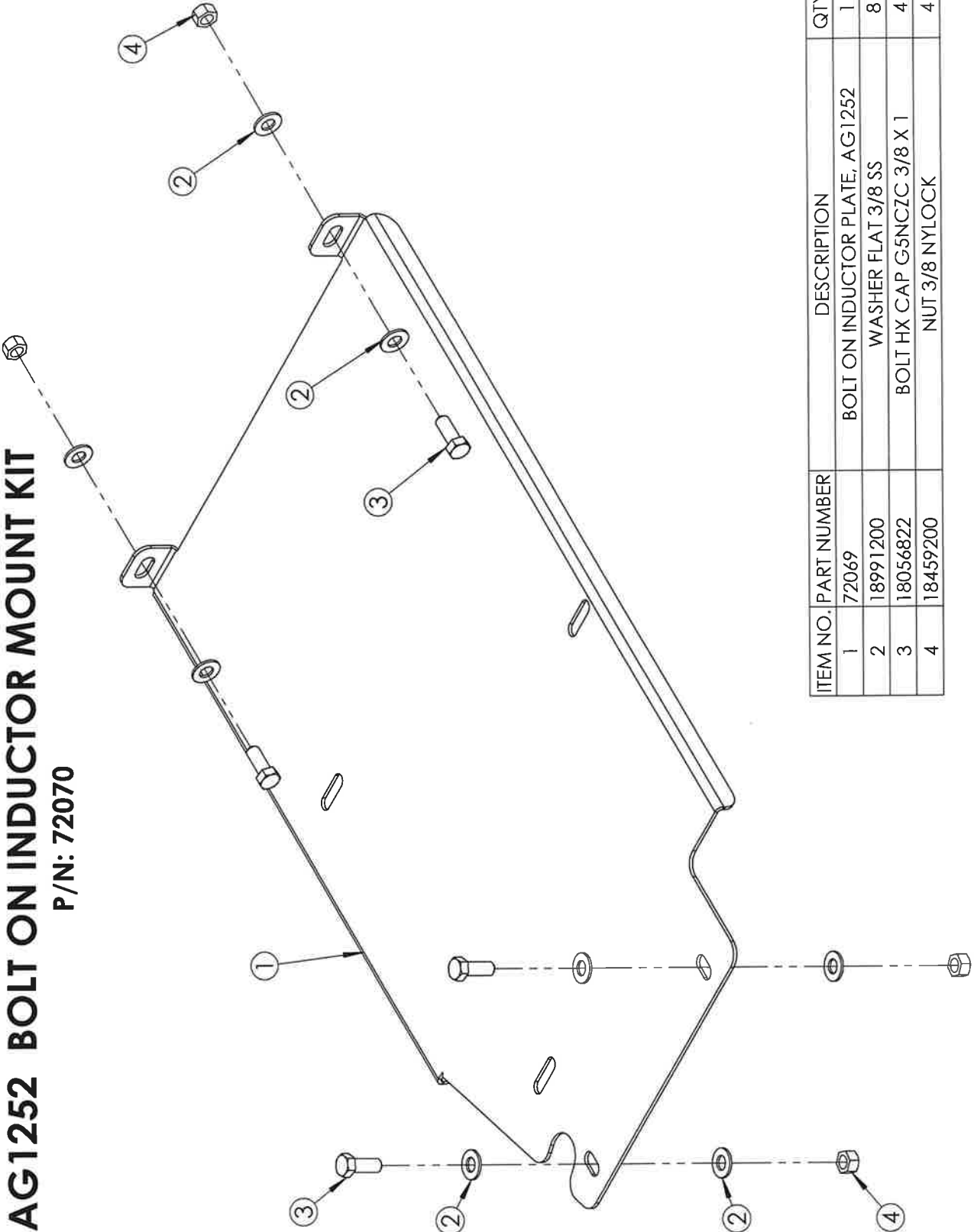
ASSEMBLED VIEW



EXPLODED VIEW

AG1252 BOLT ON INDUCTOR MOUNT KIT

P/N: 72070



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	72069	BOLT ON INDUCTOR PLATE, AG1252	1
2	18991200	WASHER FLAT 3/8 SS	8
3	18056822	BOLT HX CAP G5NCZC 3/8 X 1	4
4	18459200	NUT 3/8 NYLOCK	4

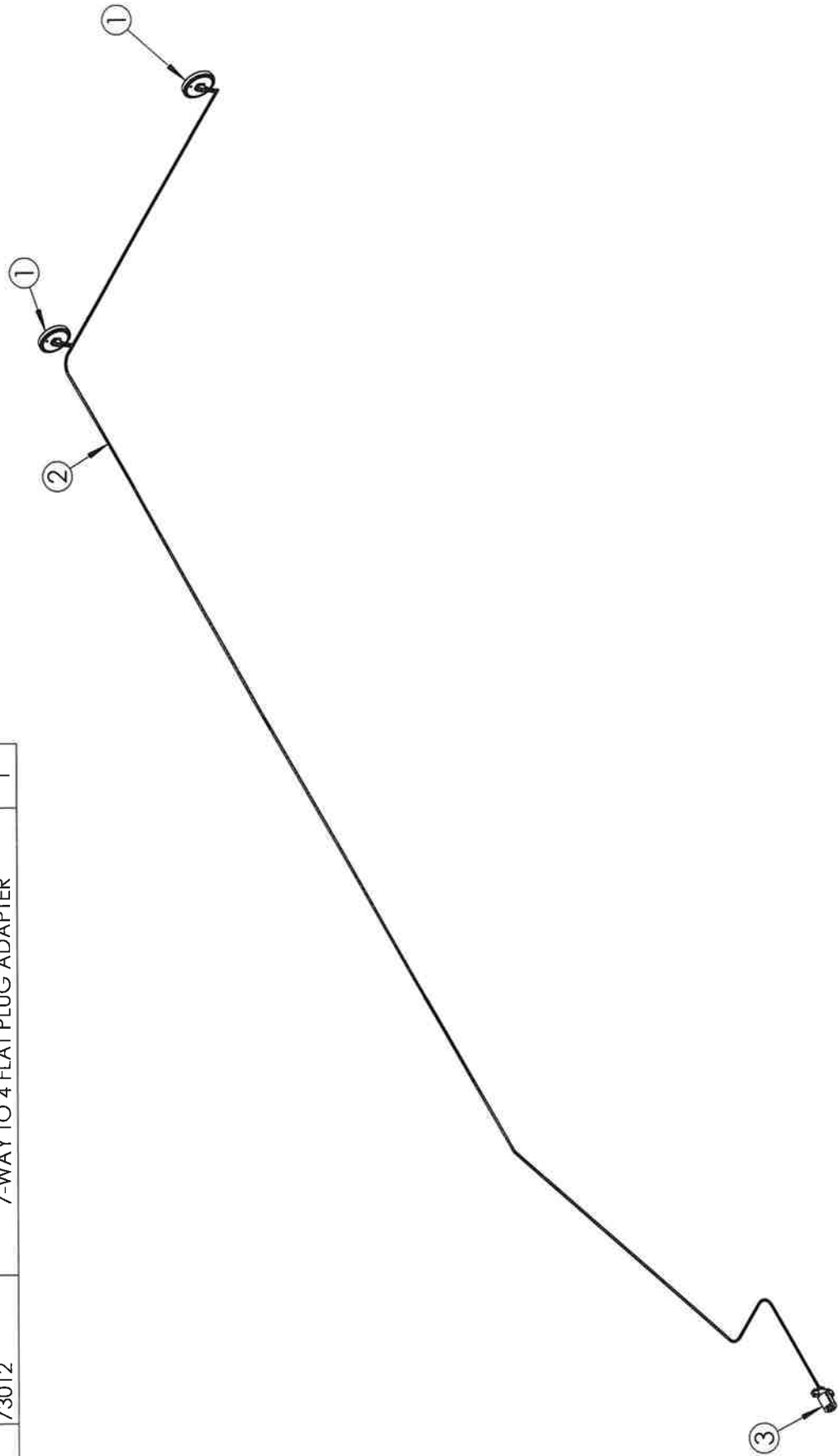
LIGHT KIT **P/N: 20110011**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47007356S	LIGHT BRACKET	2
2	01829	TAIL LIGHT LH	1
3	01836	TAIL LIGHT RH	1
4	MSB3440Y	WIRE 40' 4 POLE FLAT	1
5	1700400	3/8 HEX HEAD SELF THREAD SCREW	4
6	73012	7-WAY TO 4 FLAT PLUG ADAPTER	1



LIGHT KIT **P/N: 20110022**

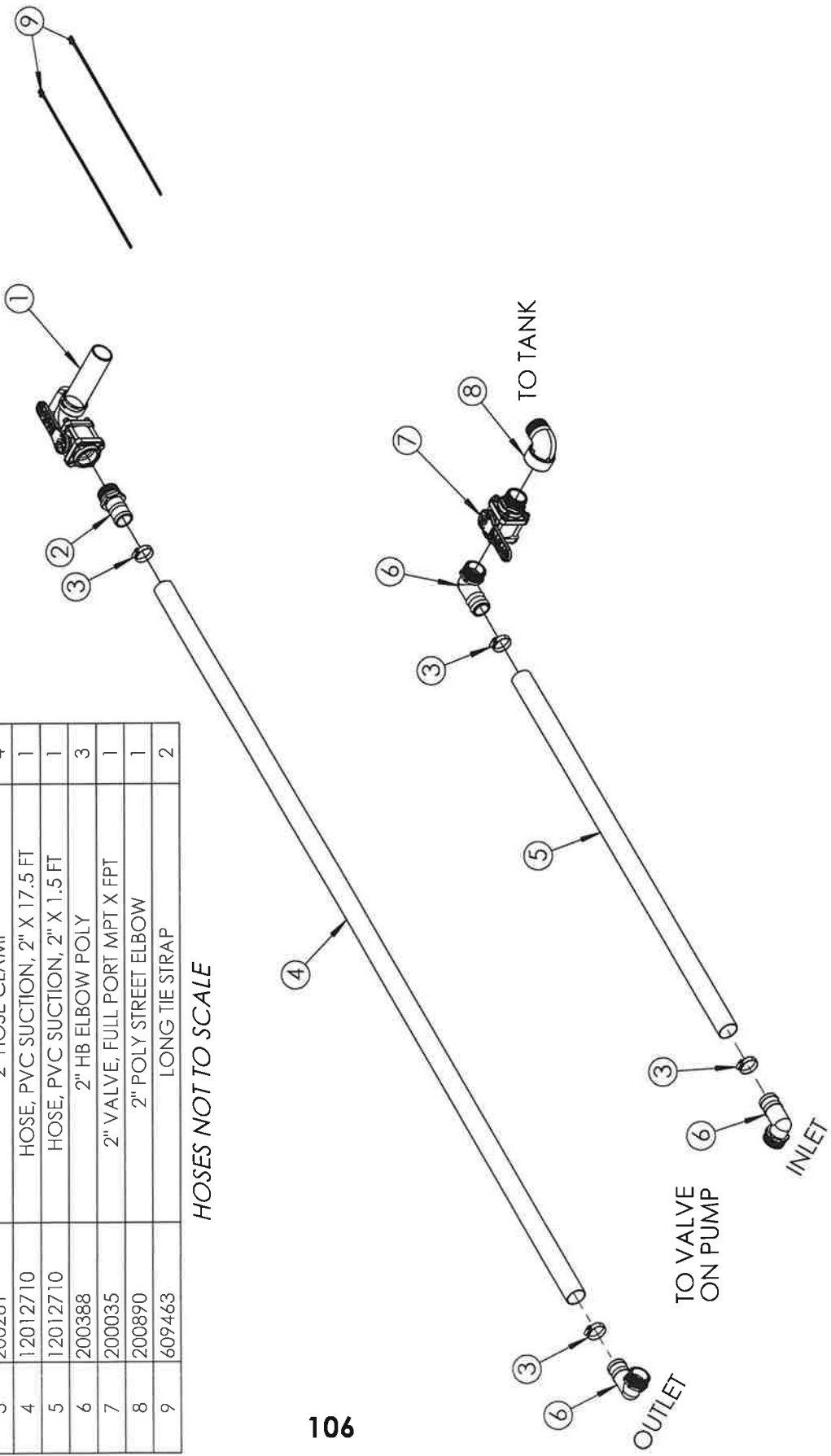
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47000817	LIGHT KIT (817KR-9)	2
2	MSB3440Y	WIRE 40' 4 POLE FLAT	1
3	73012	7-WAY TO 4 FLAT PLUG ADAPTER	1



AG111 2" PLUMBING PACKAGE P/N: 20029997

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	1
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 17.5 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 1.5 FT	1
6	200388	2" HB ELBOW POLY	3
7	200035	2" VALVE, FULL PORT MPT X FPT	1
8	200890	2" POLY STREET ELBOW	1
9	609463	LONG TIE STRAP	2

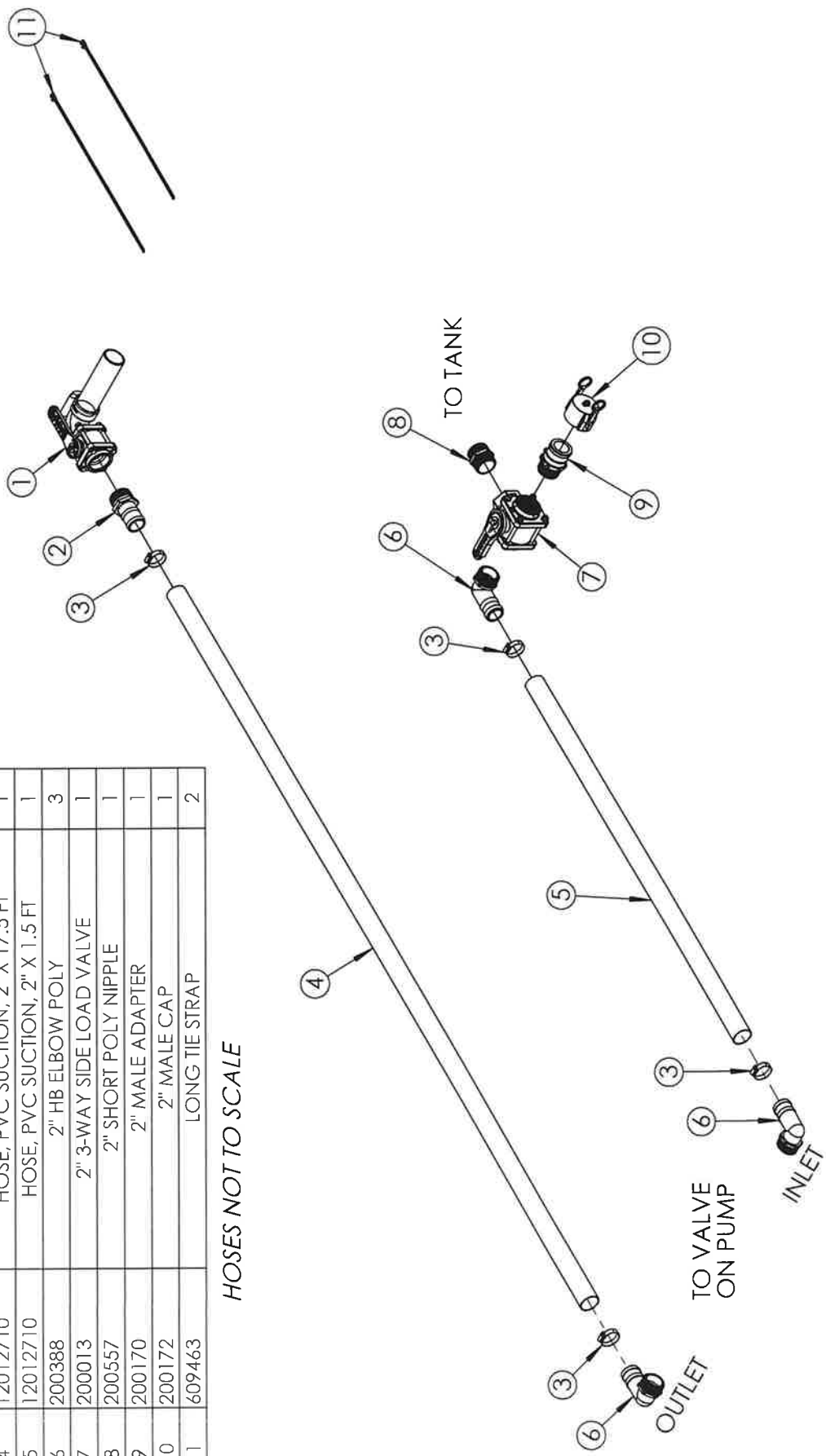
HOSES NOT TO SCALE



AG111 2" PLUMBING PACKAGE W/ FORCE FILL P/N: 20029997FF

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	1
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 17.5 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 1.5 FT	1
6	200388	2" HB ELBOW POLY	3
7	200013	2" 3-WAY SIDE LOAD VALVE	1
8	200557	2" SHORT POLY NIPPLE	1
9	200170	2" MALE ADAPTER	1
10	200172	2" MALE CAP	1
11	609463	LONG TIE STRAP	2

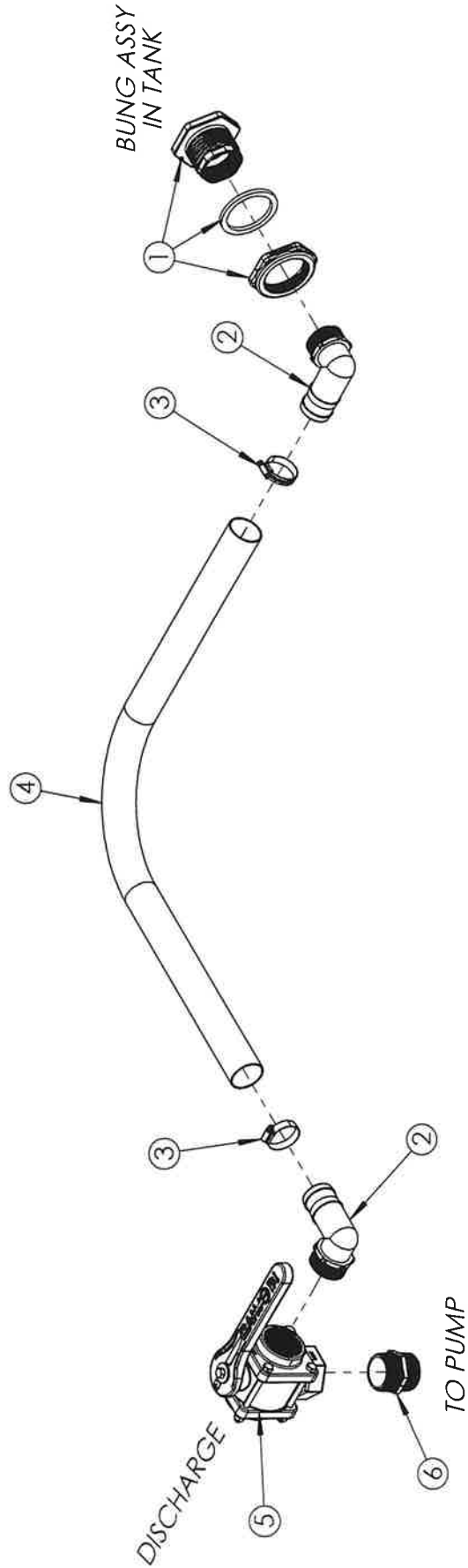
HOSES NOT TO SCALE



AG111 FRONT RECIRCULATION PACKAGE P/N: 20030007

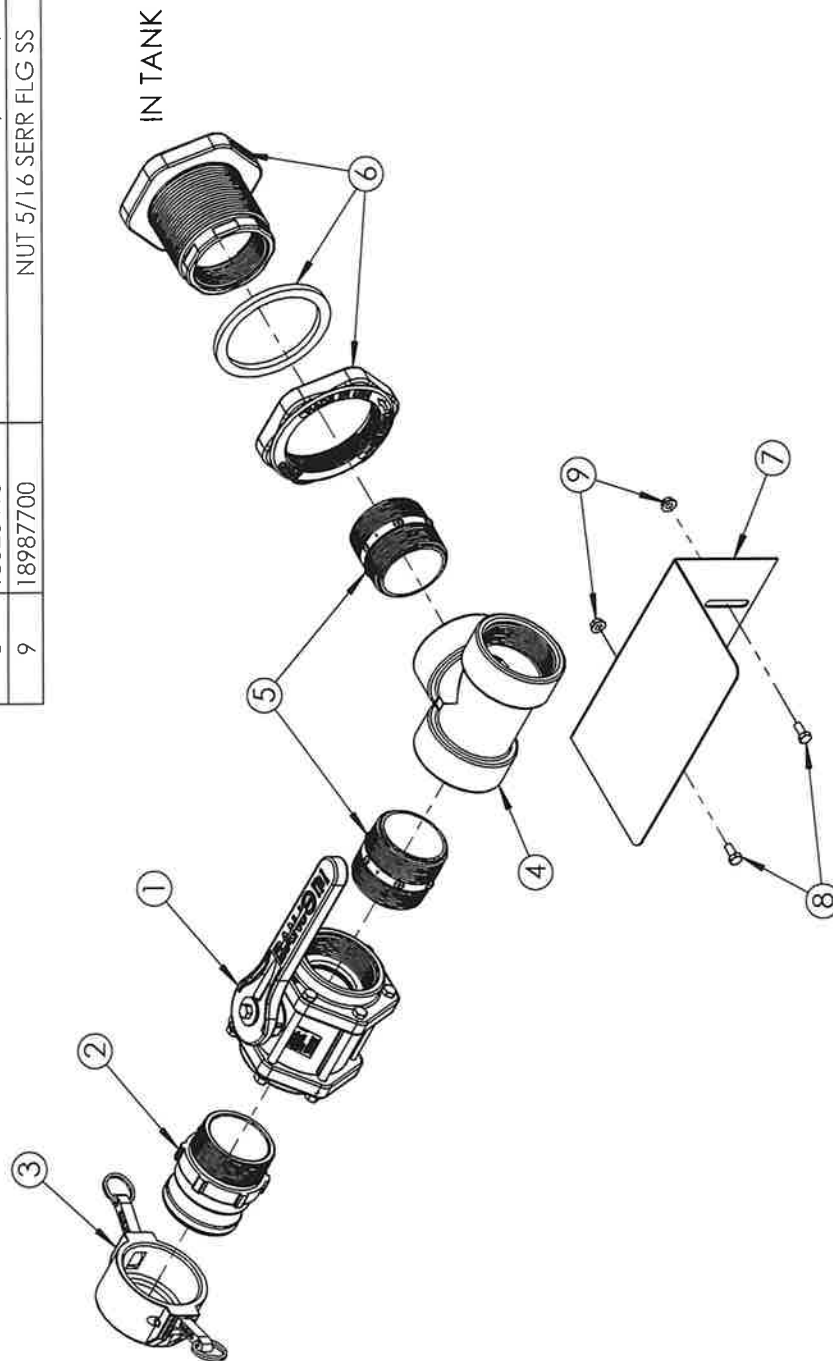
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	20020019	2" BUNG ASSEMBLY	1
2	200388	2" HB ELBOW POLY	2
3	200261	2" HOSE CLAMP	2
4	12012710	HOSE, PVC SUCTION, 2" X 3 FT	1
5	200031	2" 3-WAY VALVE BOTTOM LOAD	1
6	200557	2" SHORT POLY NIPPLE	1

HOSE NOT TO SCALE



AG116 3" FRONT FORCE FILL W/ FORCE FILL P/N: 20030006

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200018	3" VALVE	1
2	200194	3" ADAPTER	1
3	200196	3" CAP	1
4	200497	3" POLY TEE	1
5	200559	3" SHORT POLY NIPPLE	2
6	290152	3" BUNG ASSY	1
7	47003582	VALVE SUPPORT, FORCE FILL 3"	1
8	18026418	BOLT CAP SS 5/16 X 3/4	2
9	18987700	NUT 5/16 SERR FLG SS	2

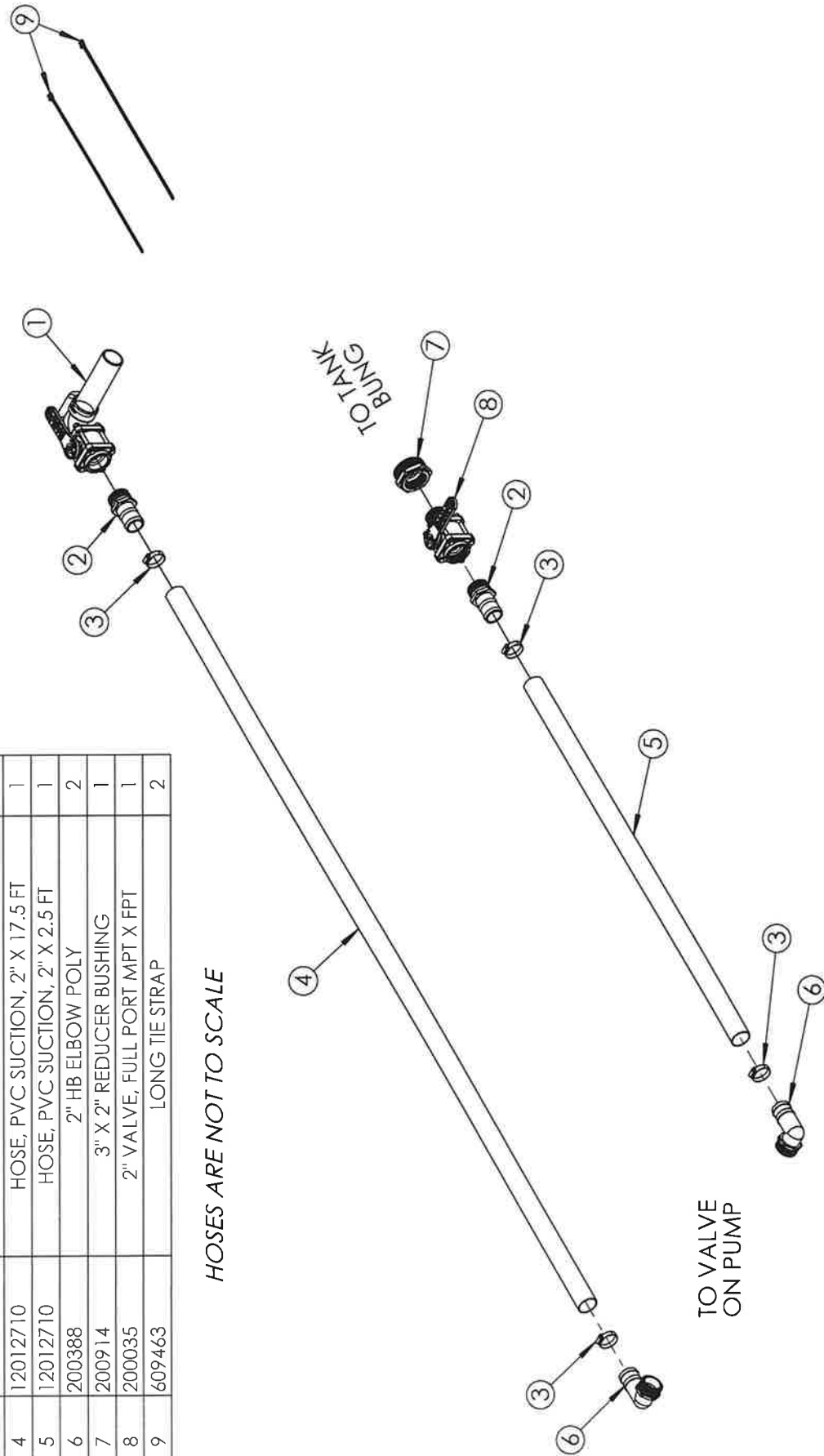


AG116 2" PLUMBING PACKAGE

P/N: 20029985

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	2
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 17.5 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 2.5 FT	1
6	200388	2" HB ELBOW POLY	2
7	200914	3" X 2" REDUCER BUSHING	1
8	200035	2" VALVE, FULL PORT MPT X FPT	1
9	609463	LONG TIE STRAP	2

HOSES ARE NOT TO SCALE

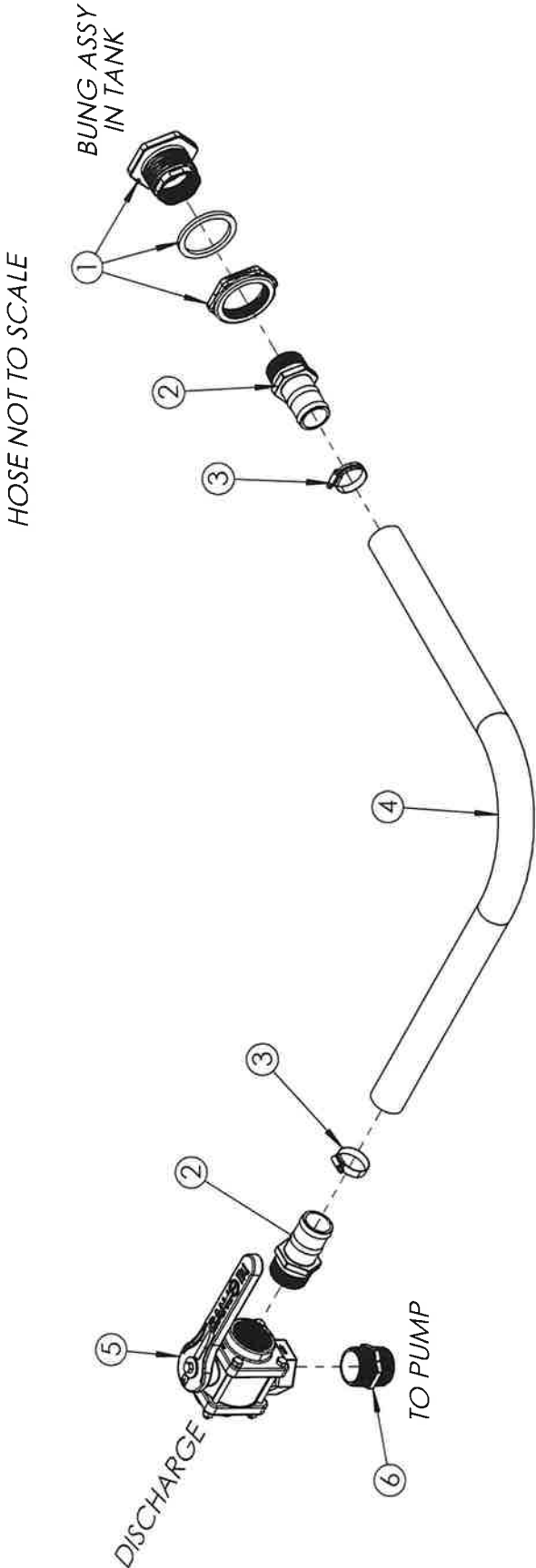


HOSES ARE NOT TO SCALE



AG116 FRONT RECIRCULATION PACKAGE **P/N: 20030009**

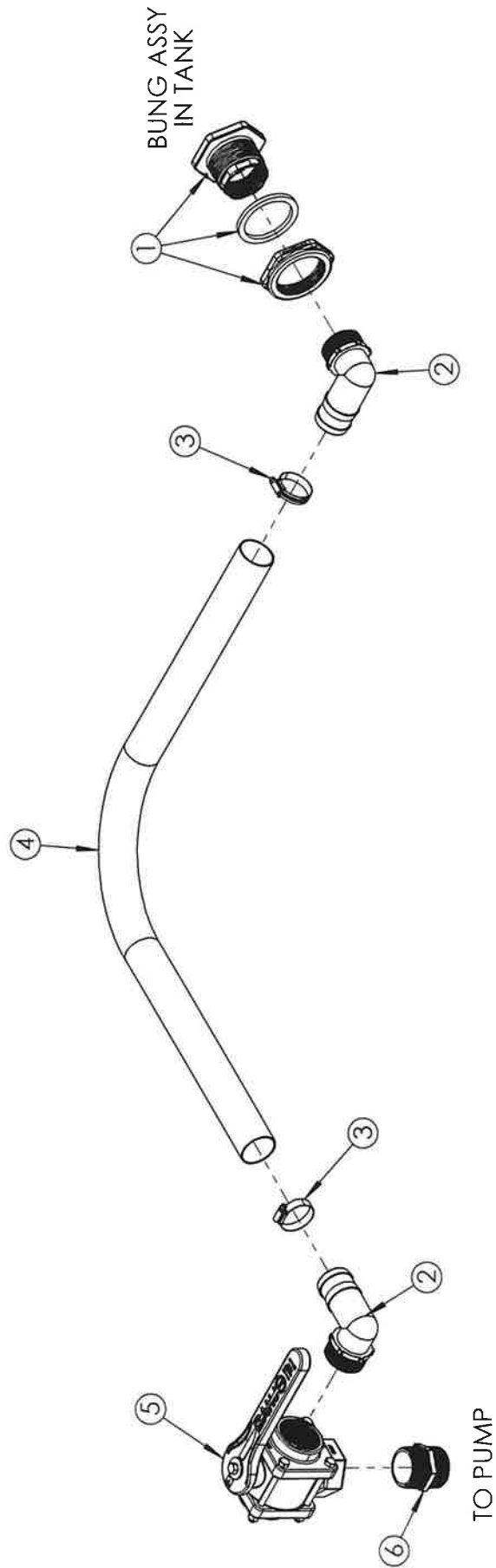
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	20020019	2" BUNG ASSEMBLY	1
2	200336	2" HOSEBARB POLY	2
3	200261	2" HOSE CLAMP	2
4	12012710	HOSE, PVC SUCTION, 2" X 2.5 FT	1
5	200031	2" 3-WAY VALVE BOTTOM LOAD	1
6	200557	2" SHORT POLY NIPPLE	1



AG116 LONG FRAME FRONT RECIRCULATION PACKAGE P/N: 20030008

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	20020019	2" BUNG ASSEMBLY	1
2	200388	2" HB ELBOW POLY	2
3	200261	2" HOSE CLAMP	2
4	12012710	HOSE, PVC SUCTION, 2" X 10 FT	1
5	200031	2" 3-WAY VALVE BOTTOM LOAD	1
6	200557	2" SHORT POLY NIPPLE	1

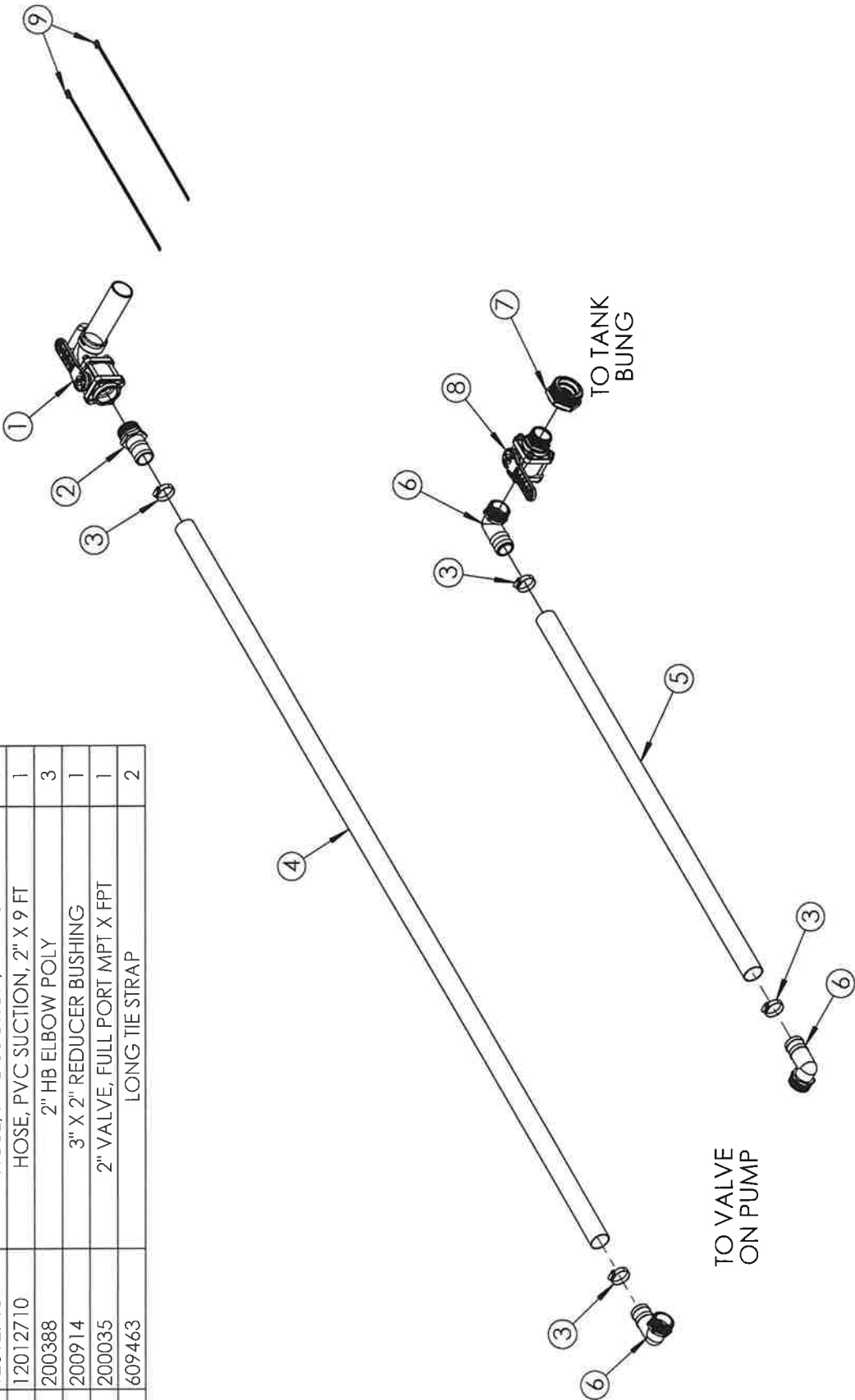
HOSE NOT TO SCALE



AG116 LONG FRAME 2" PLUMBING PACKAGE

P/N: 20029988

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	1
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 18 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 9 FT	1
6	200388	2" HB ELBOW POLY	3
7	200914	3" X 2" REDUCER BUSHING	1
8	200035	2" VALVE, FULL PORT MPT X FPT	1
9	609463	LONG TIE STRAP	2

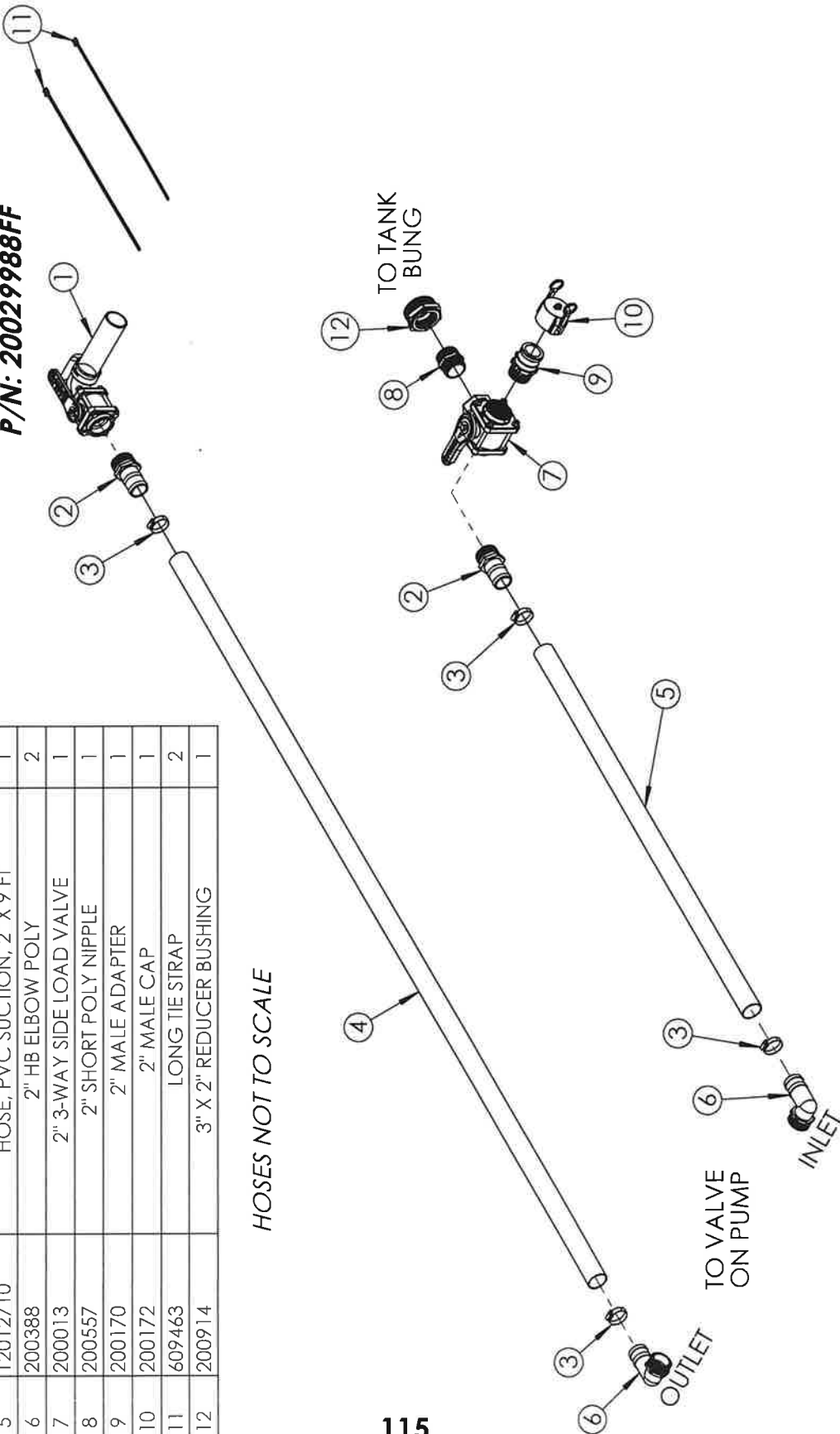


AG116 LONG FRAME 2" PLUMBING PACKAGE W/ FORCE FILL

P/N: 20029988FF

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	2
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 18 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 9 FT	1
6	200388	2" HB ELBOW POLY	2
7	200013	2" 3-WAY SIDE LOAD VALVE	1
8	200557	2" SHORT POLY NIPPLE	1
9	200170	2" MALE ADAPTER	1
10	200172	2" MALE CAP	1
11	609463	LONG TIE STRAP	2
12	200914	3" X 2" REDUCER BUSHING	1

HOSES NOT TO SCALE

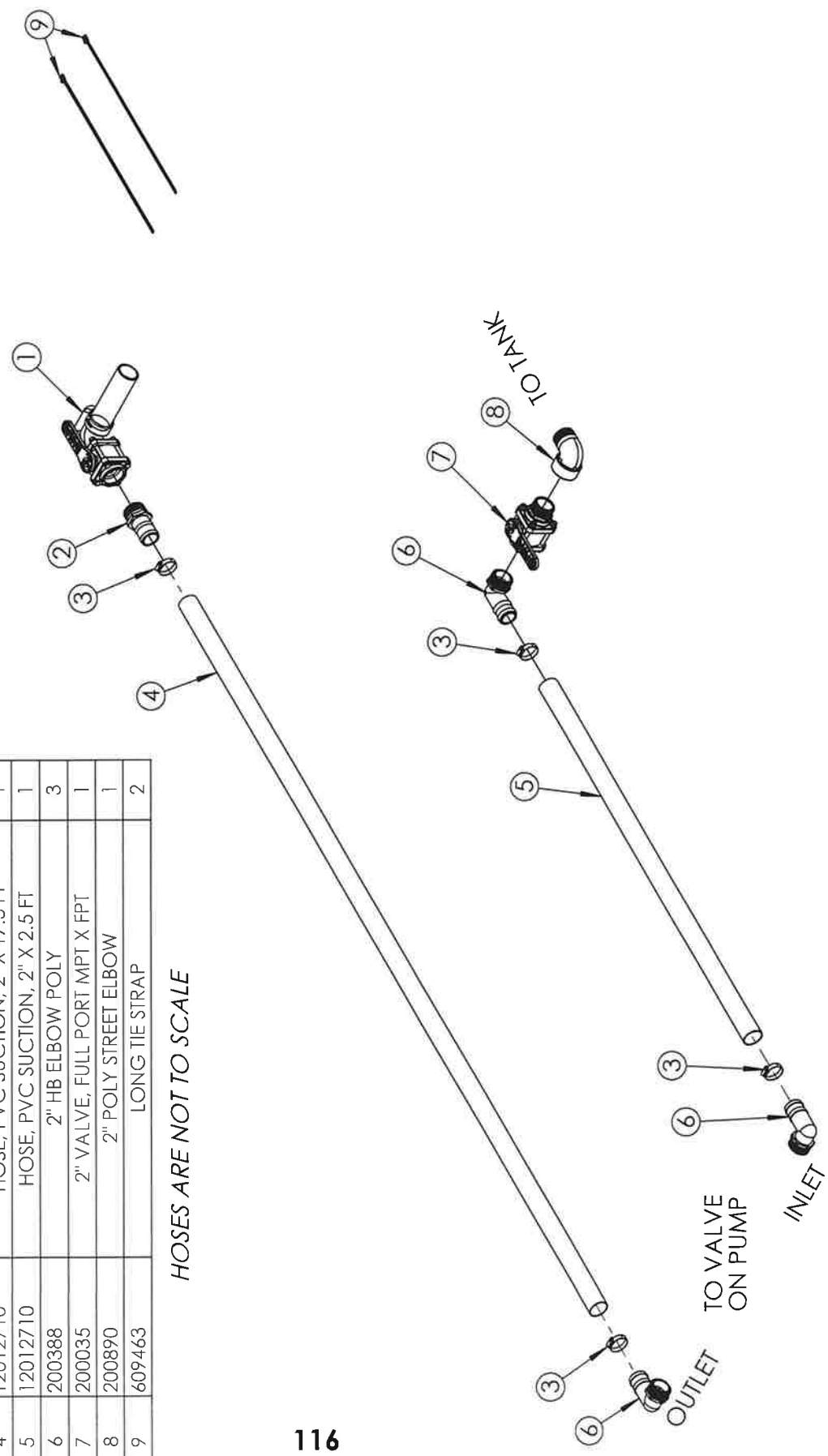


AG1000 FLAT BOTTOM 2" PLUMBING PACKAGE

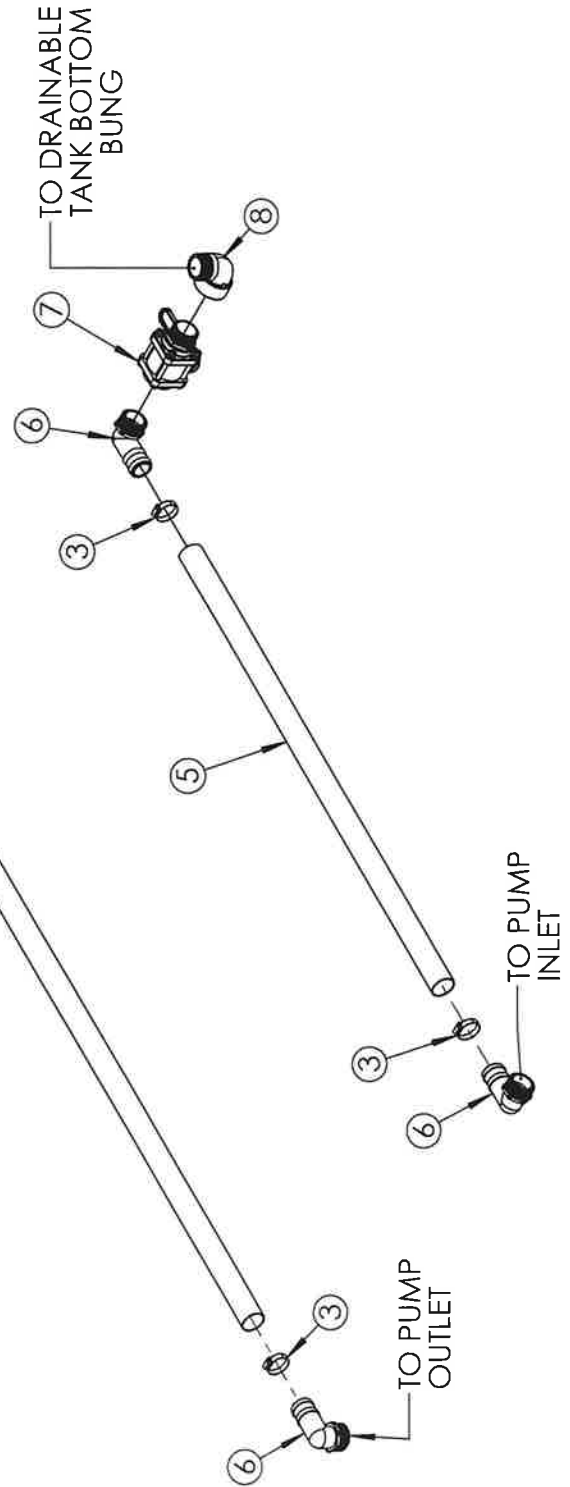
P/N: 20029999

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	1
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 17.5 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 2.5 FT	1
6	200388	2" HB ELBOW POLY	3
7	200035	2" VALVE, FULL PORT MPT X FPT	1
8	200890	2" POLY STREET ELBOW	1
9	609463	LONG TIE STRAP	2

HOSES ARE NOT TO SCALE

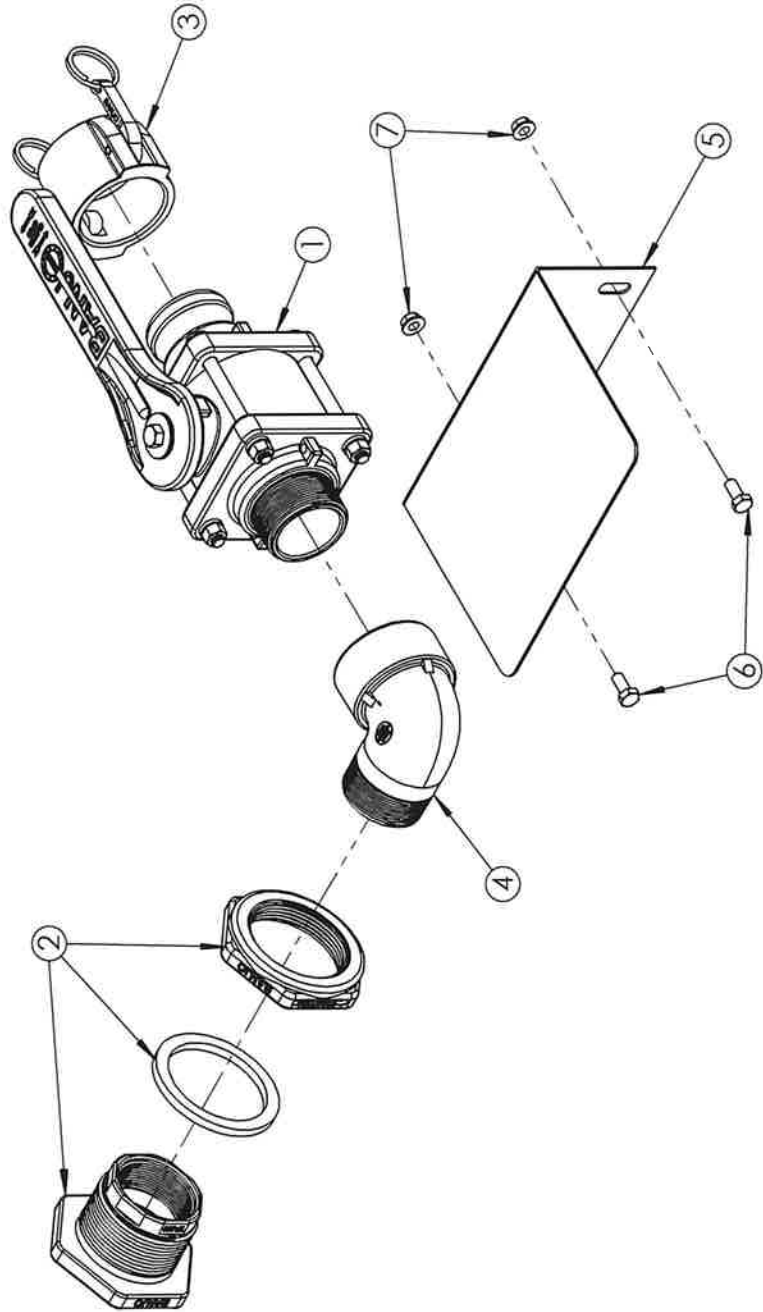


HOSES ARE NOT TO SCALE



AG1000/1250 2" FRONT FORCE FILL P/N: 20030001

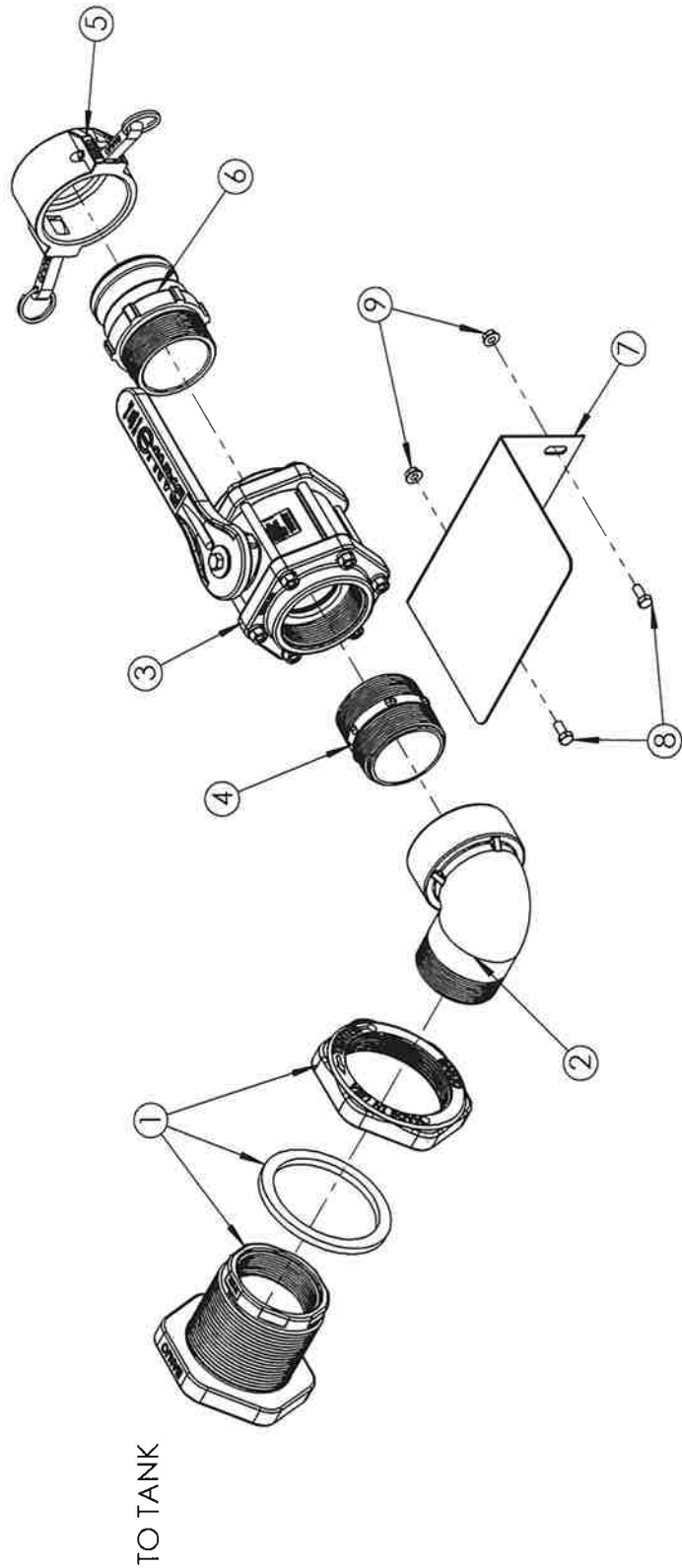
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200037	2" FULL PORT BALL VALVE	1
2	20020019	2" BUNG ASSEMBLY	1
3	200172	2" MALE CAP	1
4	200890	2" POLY STREET ELBOW	1
5	10129A	VALVE SUPPORT, FORCE FILL	1
6	18026418	BOLT CAP SS 5/16 X 3/4	2
7	18987700	NUT 5/16 SERR FLG SS	2



AG1000/1250 3" FRONT FORCE FILL

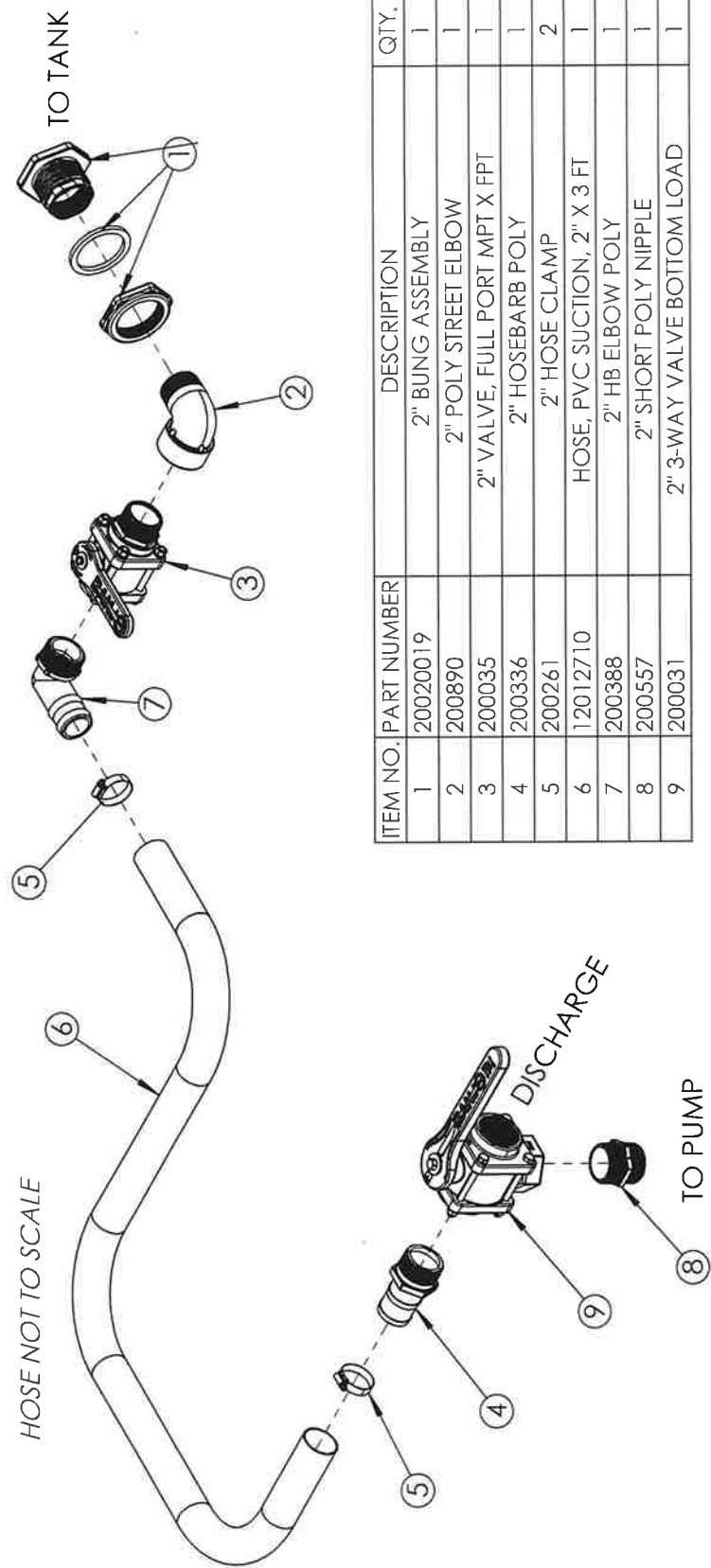
P/N: 20030001-3

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	290152	3" BUNG ASSY	1
2	200785	3" 90 DEGREE STREET ELBOW	1
3	200018	3" VALVE	1
4	200559	3" SHORT POLY NIPPLE	1
5	200196	3" CAP	1
6	200194	3" ADAPTER	1
7	10129A	VALVE SUPPORT, FORCE FILL	1
8	18026418	BOLT CAP SS 5/16 X 3/4	2
9	18987700	NUT 5/16 SERR FLG SS	2

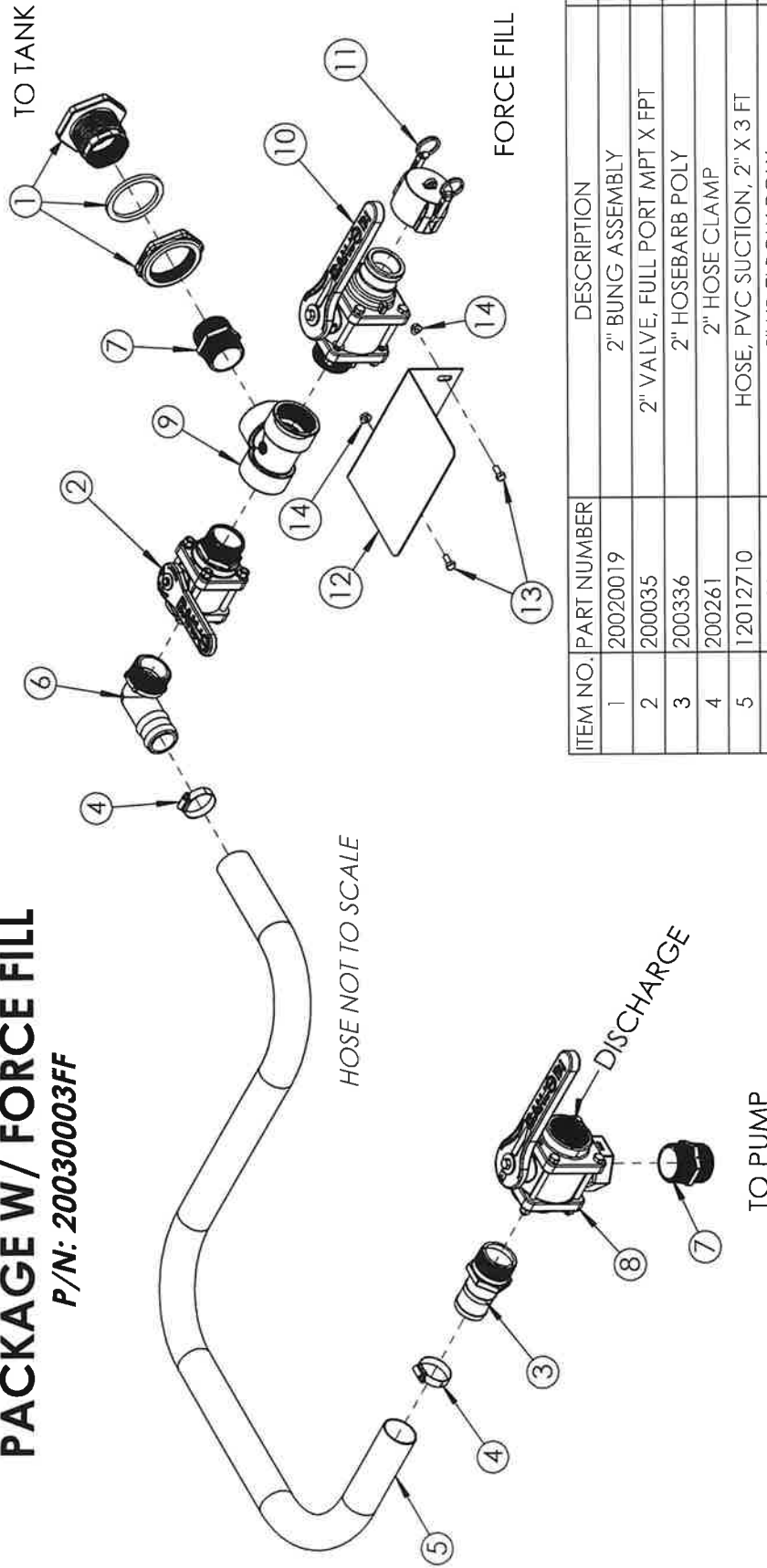


AG1000/1250 FRONT RECIRCULATION PACKAGE

P/N: 20030003

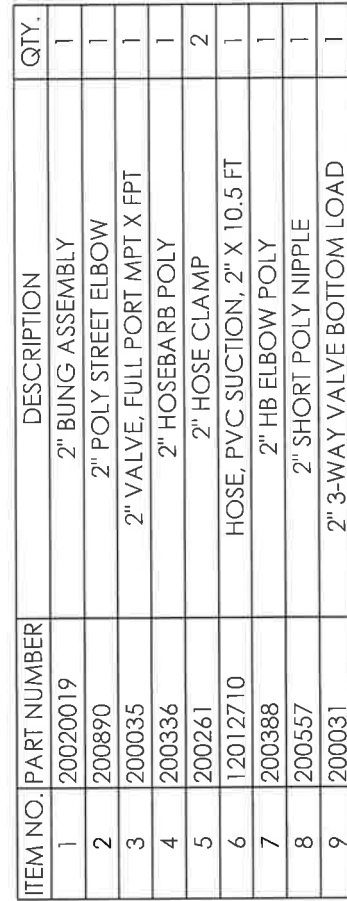


AG1000/1250 FRONT RECIRCULATION PACKAGE W/ FORCE FILL P/N: 20030003FF

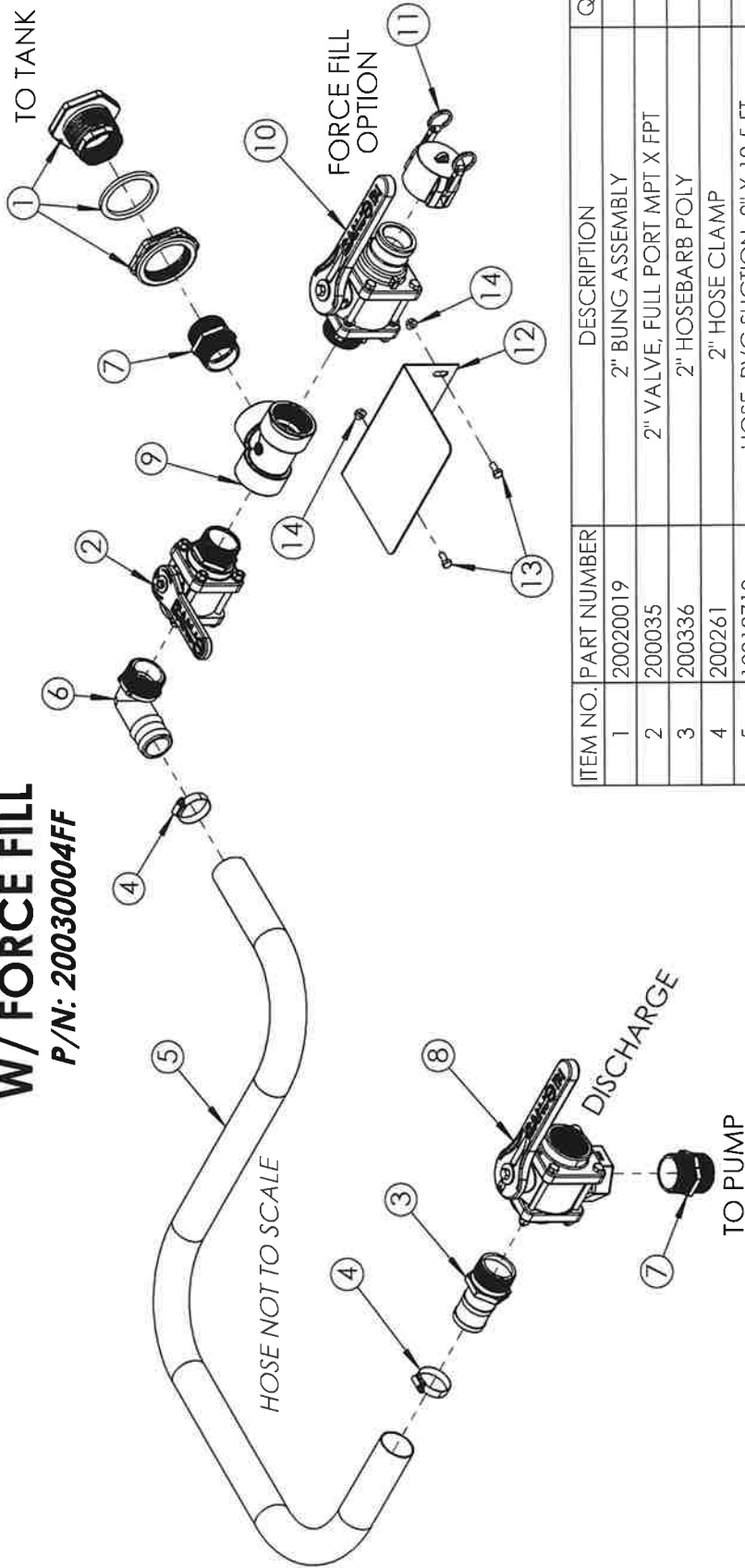


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	20020019	2" BUNG ASSEMBLY	1
2	200035	2" VALVE, FULL PORT MPT X FPT	1
3	200336	2" HOSEBARB POLY	1
4	200261	2" HOSE CLAMP	2
5	12012710	HOSE, PVC SUCTION, 2" X 3 FT	1
6	200388	2" HB ELBOW POLY	1
7	200557	2" SHORT POLY NIPPLE	2
8	200031	2" 3-WAY VALVE BOTTOM LOAD	1
9	261200	2" POLY TEE	1
10	200037	2" FULL PORT BALL VALVE	1
11	200172	2" MALE CAP	1
12	10129A	VALVE SUPPORT, FORCE FILL	1
13	18026418	BOLT CAP SS 5/16 X 3/4	2
14	18987700	NUT 5/16 SERR FLG SS	2

P/N: 20030004



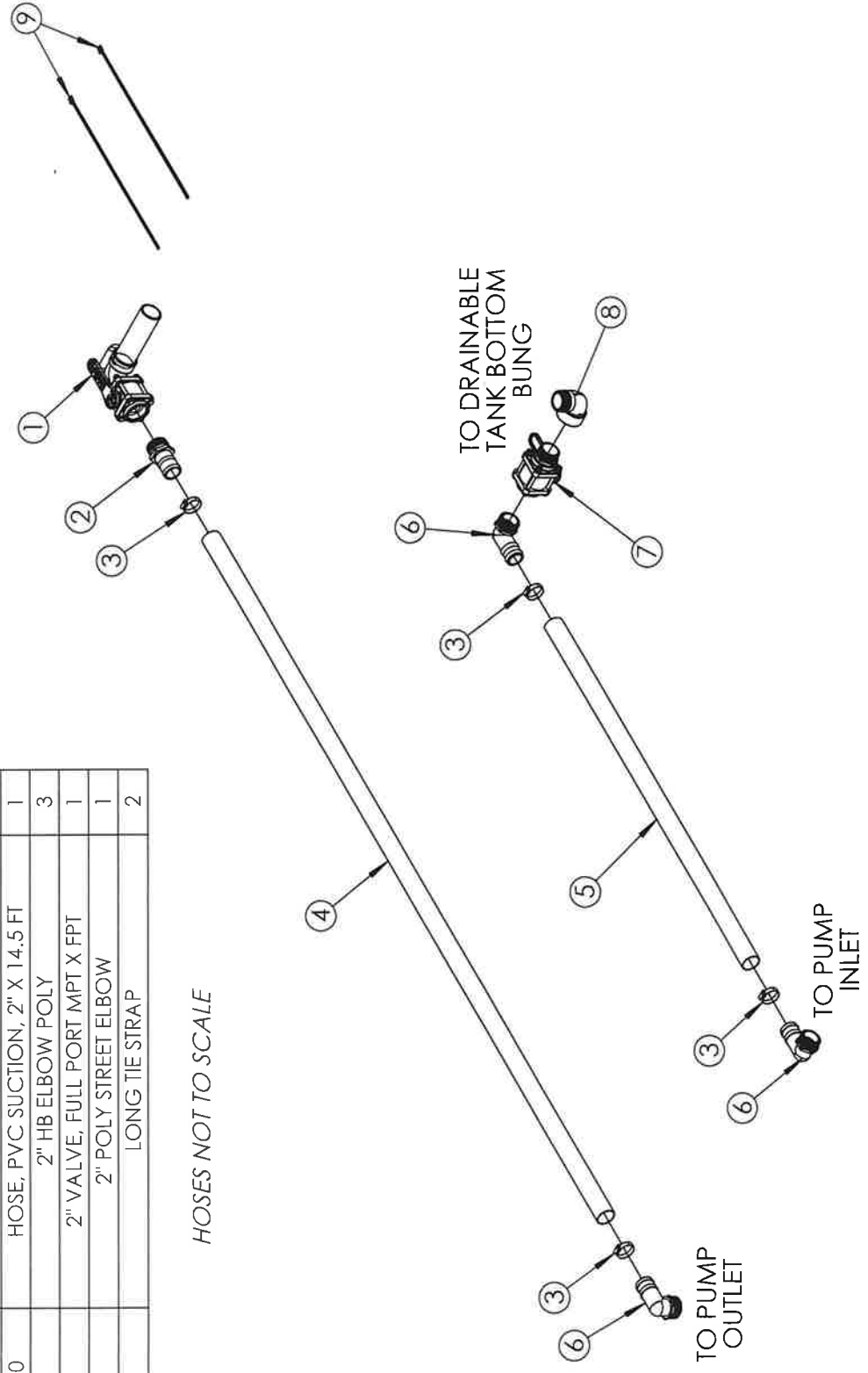
SR1000/1250 FRONT RECIRCULATION PACKAGE **W/ FORCE FILL** **P/N: 20030004FF**



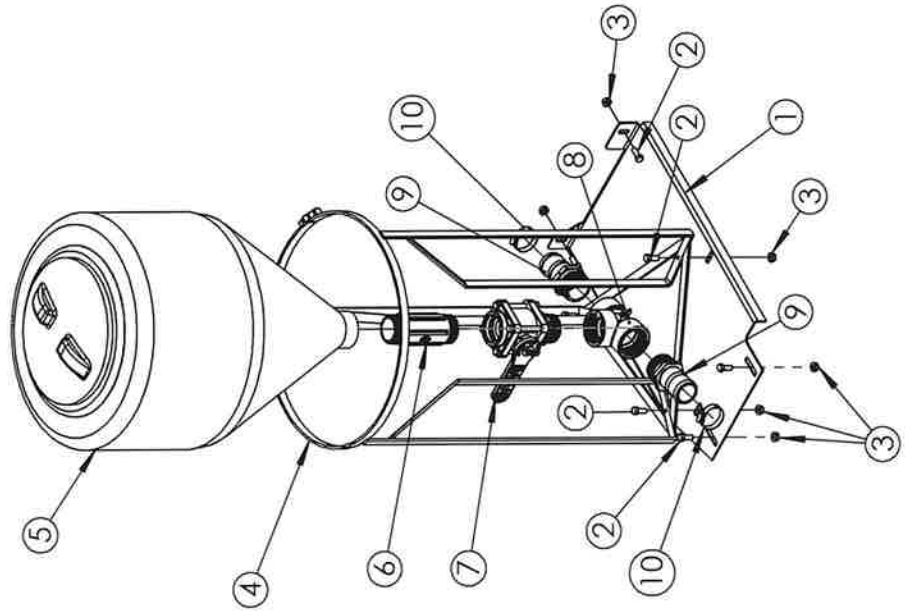
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	20020019	2" BUNG ASSEMBLY	1
2	200035	2" VALVE, FULL PORT MPT X FPT	1
3	200336	2" HOSEBARB POLY	1
4	200261	2" HOSE CLAMP	2
5	12012710	HOSE, PVC SUCTION, 2" X 10.5 FT	1
6	200388	2" HB ELBOW POLY	1
7	200557	2" SHORT POLY NIPPLE	2
8	200031	2" 3-WAY VALVE BOTTOM LOAD	1
9	261200	2" TEE	1
10	200037	2" FULL PORT BALL VALVE	1
11	200172	2" MALE CAP	1
12	10129A	VALVE SUPPORT, FORCE FILL	1
13	18026418	BOLT CAP SS 5/16 X 3/4	2
14	18987700	NUT 5/16 SERR FLG SS	2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200024	2" NOZZLE VALVE WITH SPOUT	1
2	200336	2" HOSEBARB POLY	1
3	200261	2" HOSE CLAMP	4
4	12012710	HOSE, PVC SUCTION, 2" X 17.5 FT	1
5	12012710	HOSE, PVC SUCTION, 2" X 14.5 FT	1
6	200388	2" HB ELBOW POLY	3
7	200035	2" VALVE, FULL PORT MPT X FPT	1
8	200890	2" POLY STREET ELBOW	1
9	609463	LONG TIE STRAP	2

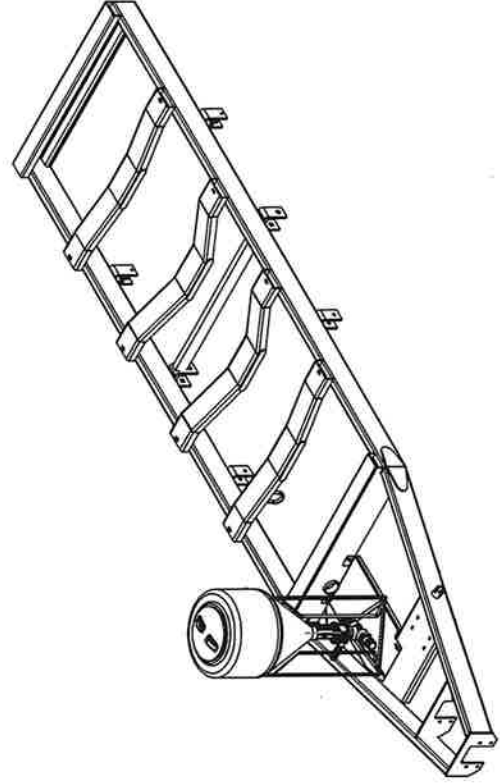
SR1000/1250 2" PLUMBING PACKAGE **P/N: 20029998**



15 GALLON INDUCTOR STAND PACKAGE PART NUMBER: 20030005

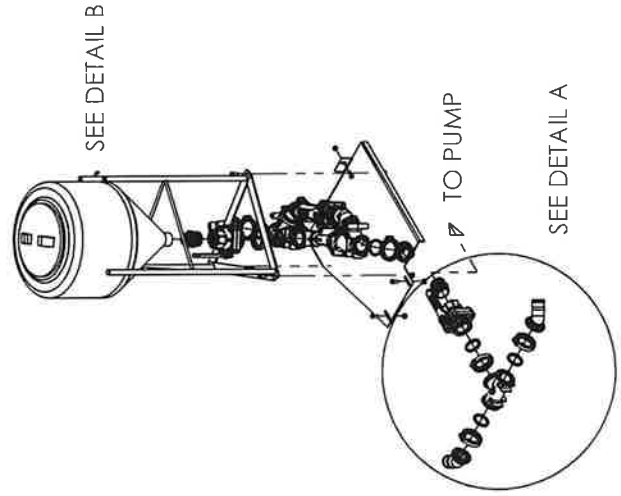
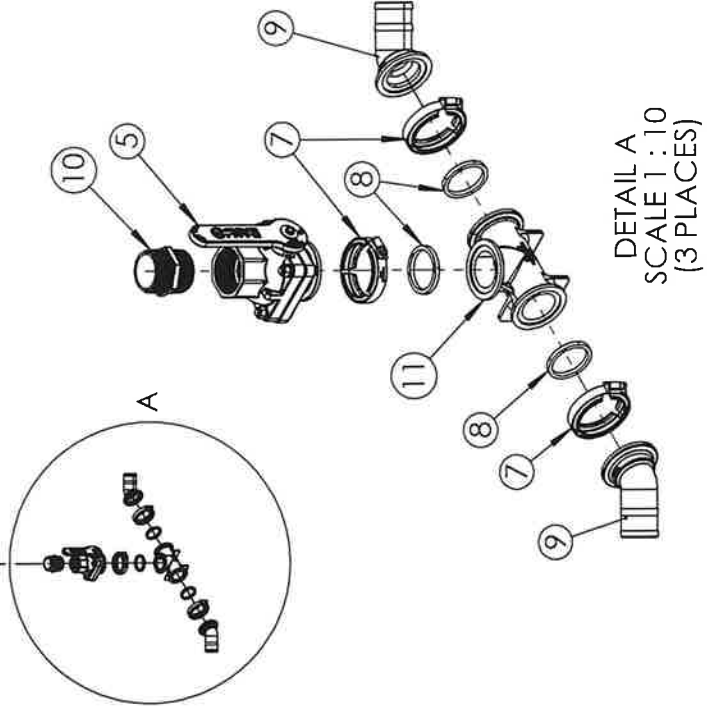
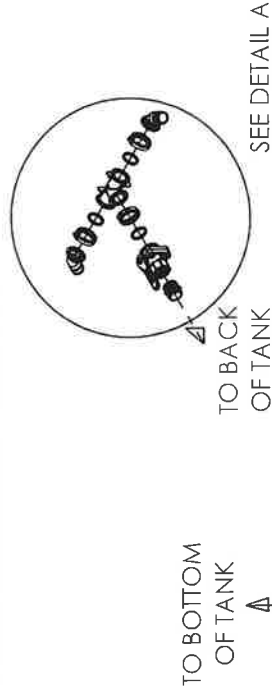


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47005797	INDUCTOR STAND MOUNTING PLATE	1
2	18056822	BOLT HX CAP G5NCZC 3/8 X 1	7
3	18496800	FLANGE NUT, 3/8-16 NC	7
4	700116	TANK STAND 15 GALLON	1
5	700115	15 GALLON TANK	1
6	NIP200-6	2" X 6" LG CLOSE NIPPLE	1
7	200035	2" VALVE, FULL PORT MPT X FPT	1
8	TEE200	2" TEE	1
9	HB200	2" HOSE BARB	2
10	200261	2" HOSE CLAMP	2

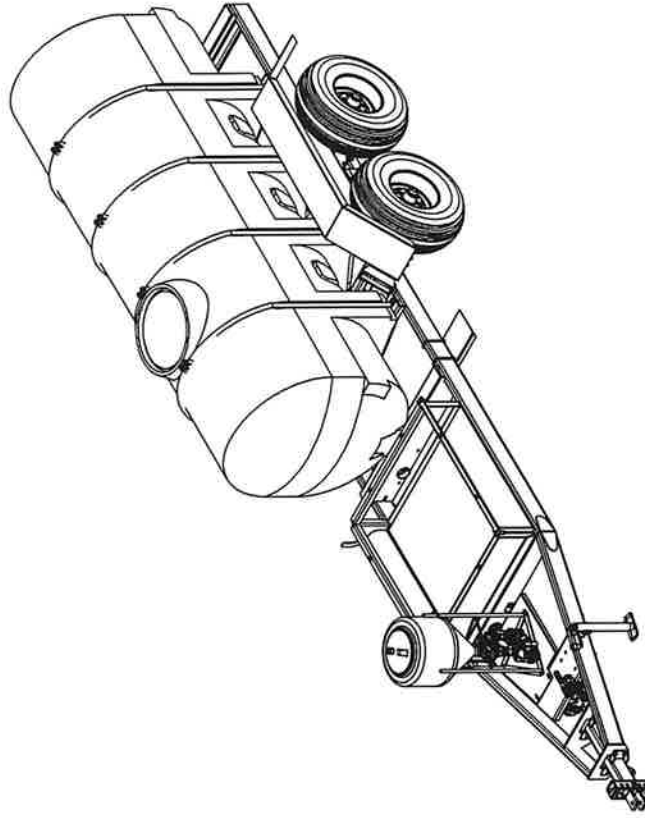
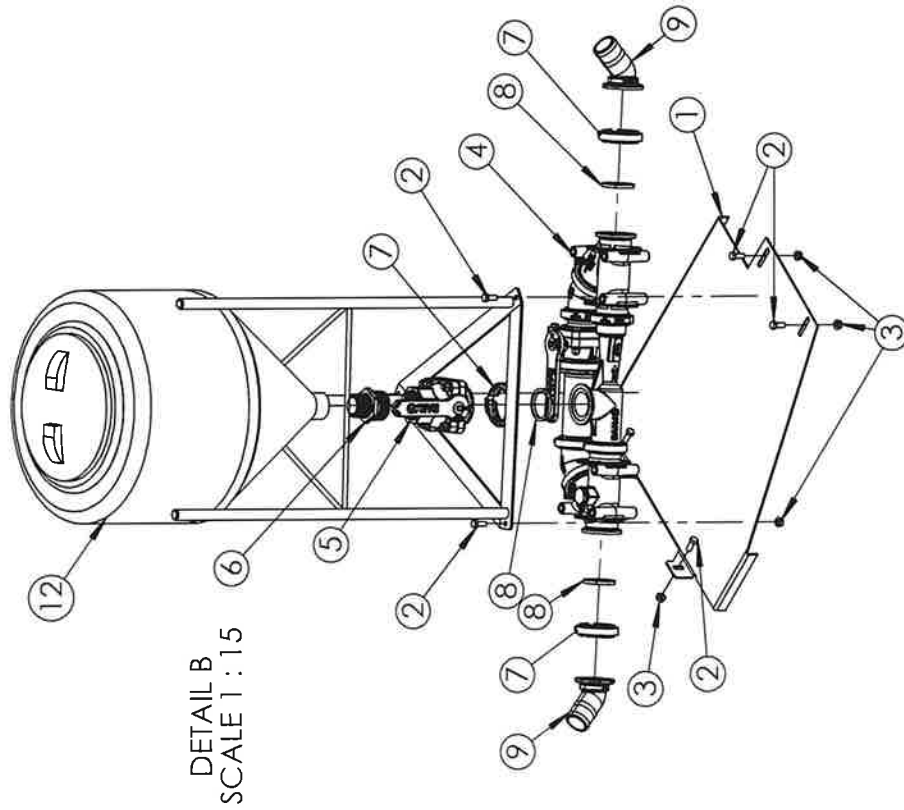


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47003583	INDUCTOR STAND MOUNT (BOLT-ON)	1
2	18056822	BOLT HX CAP G5NCZC 3/8 X 1	7
3	18496800	FLANGE NUT, 3/8-16 NC	7
4	MIS220	2" INDUCTOR MANIFOLD ASSY	1
5	MVS220FP	2" FPT X 2" FP FLANGE VALVE	4
6	21200150	2" X 1.5" REDUCING NIPPLE	1
7	FC220	2" FLANGE CLAMP	12
8	UFG0200E-A	2" FLANGE GASKET	12
9	M220BRB45	2" HOSE BARB X 45 DEGREES	8
10	NIP200-SH	2" SHORT POLY NIPPLE	3
11	M220TEE	2" FULL PORT FLANGED TEE	3
12	INF15-19-16L	15 GALLON TANK & STAND	1

15 GALLON INDUCTOR STAND PACKAGE (AMES/MARSHALL) PART NUMBER: 20030005F



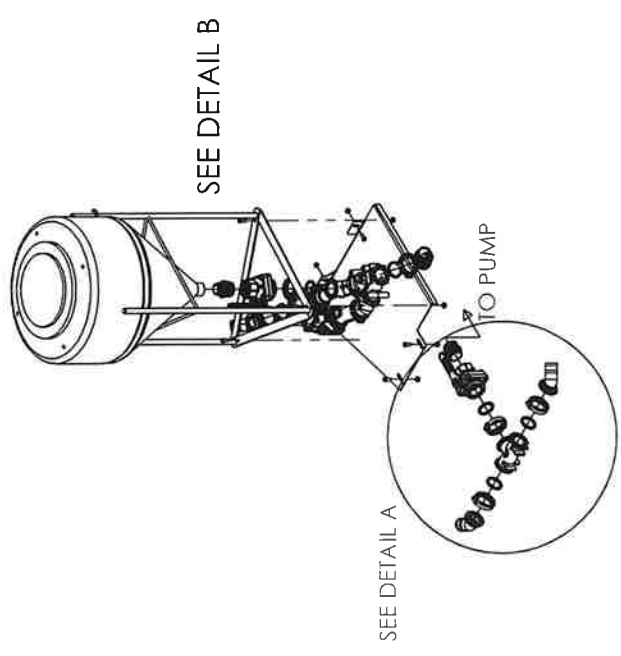
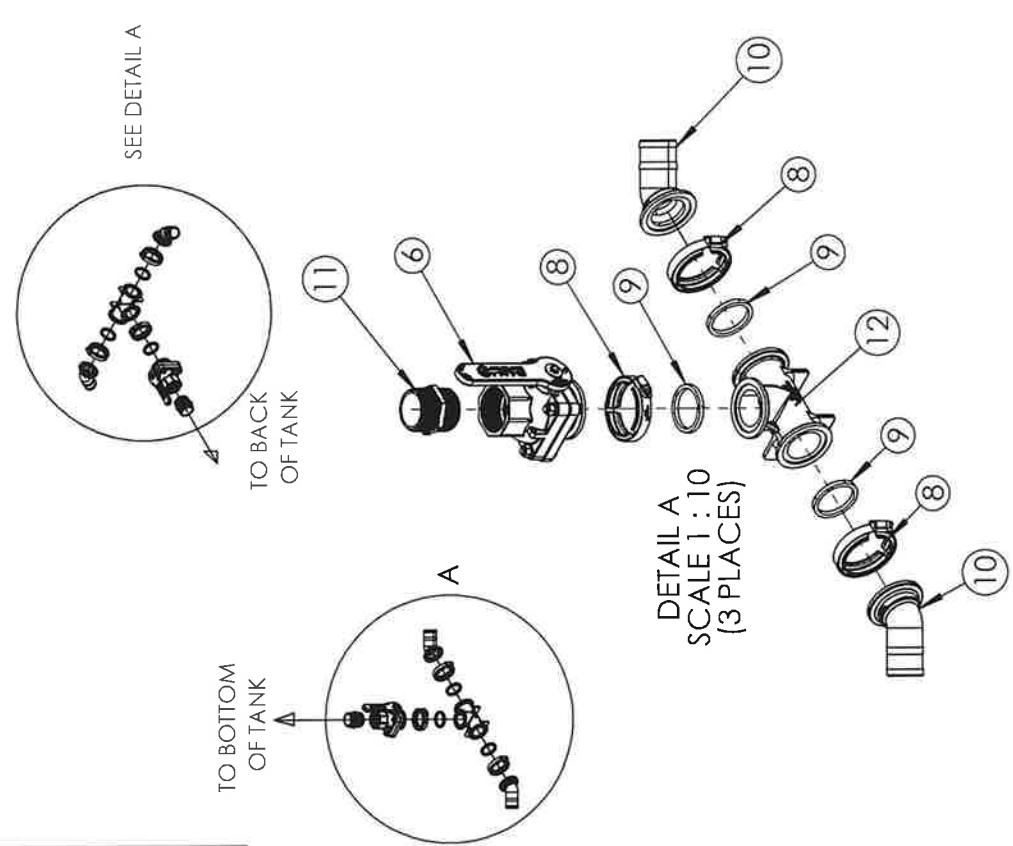
15 GALLON INDUCTOR STAND PACKAGE (AMES/MARSHALL) PART NUMBER: 20030005F



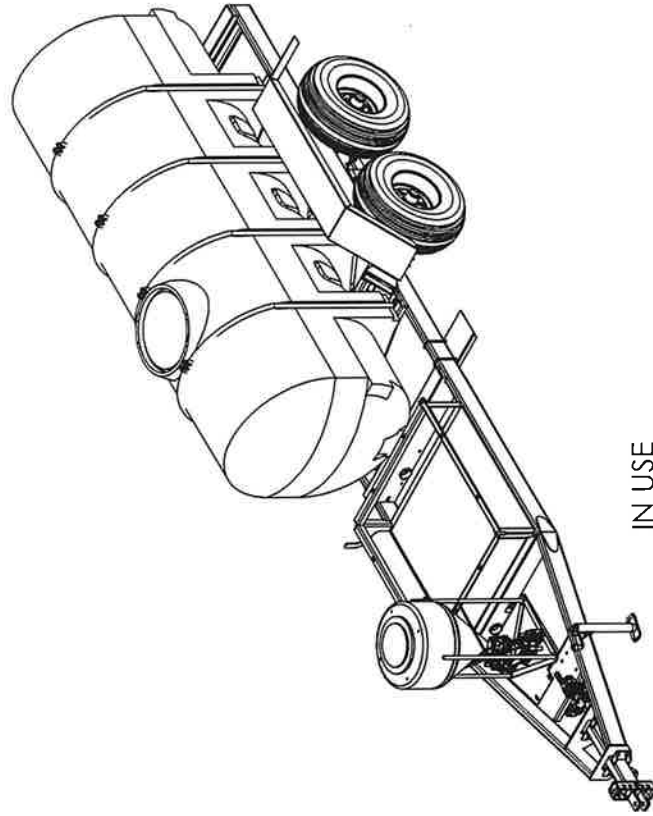
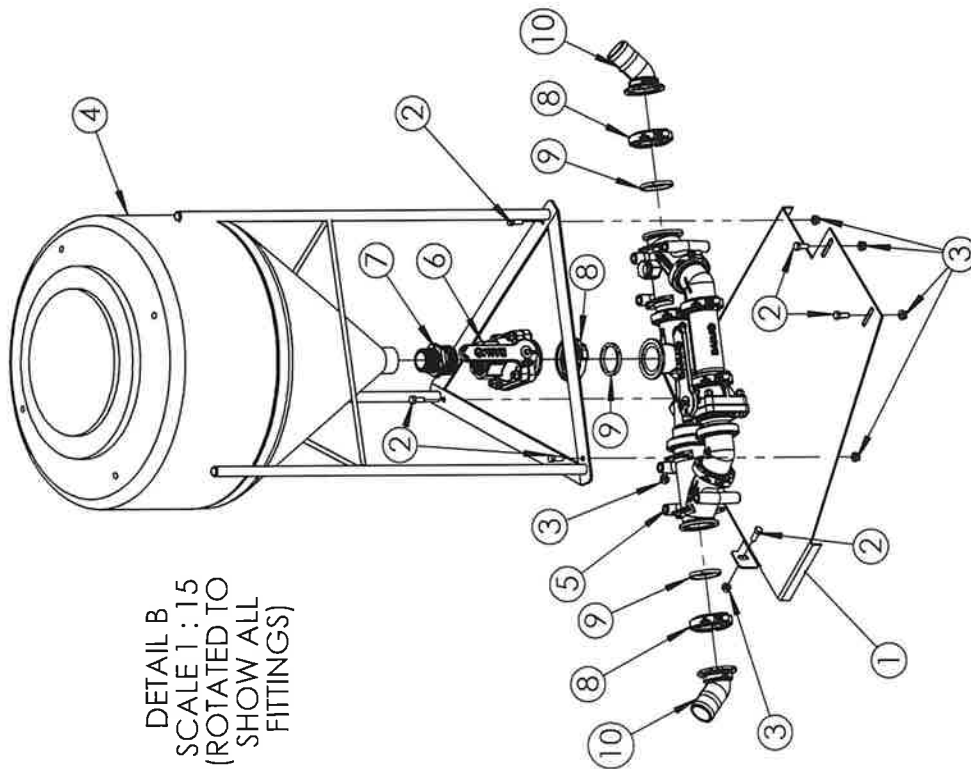
IN USE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47003583	INDUCTOR STAND MOUNT (BOLT-ON)	1
2	18056822	BOLT HX CAP G5NCZC 3/8 X 1	7
3	18496800	FLANGE NUT, 3/8-16 NC	7
4	INF30-24-16L	30 GALLON INDUCTOR TANK W/ STAND	1
5	MIS220	2" INDUCTOR MANIFOLD ASSY	1
6	MVS220FP	2" FPT X 2" FP FLANGE VALVE	4
7	21200150	2" X 1.5" REDUCING NIPPLE	1
8	FC220	2" FLANGE CLAMP	12
9	UFG0200E-A	2" FLANGE GASKET	12
10	M220BRB45	2" HOSE BARB X 45 DEGREES	8
11	NIP200-SH	2" SHORT POLY NIPPLE	3
12	M220TEE	2" FULL PORT FLANGED TEE	3

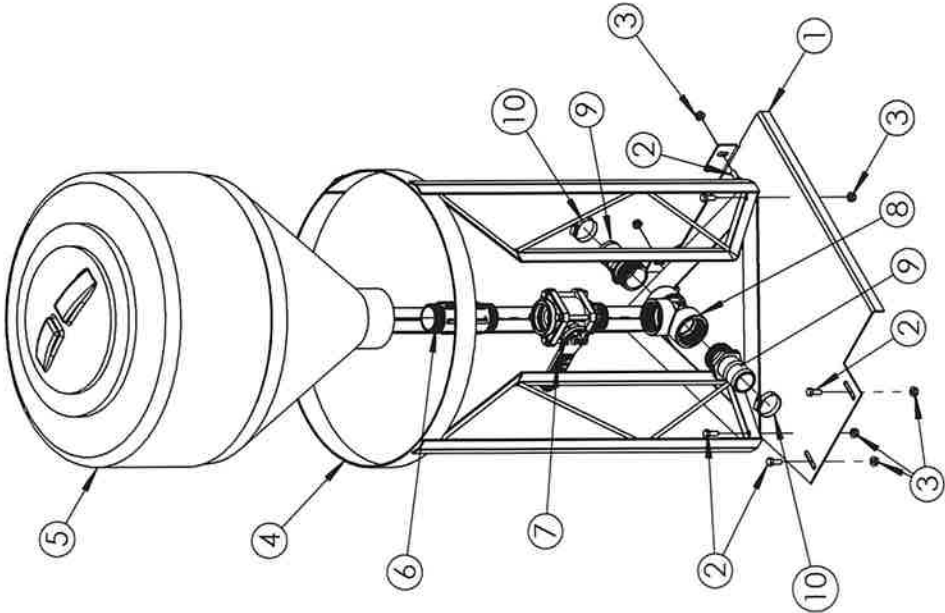
30 GALLON INDUCTOR STAND PACKAGE (AMES/MARSHALL) PART NUMBER: 20030005-30F



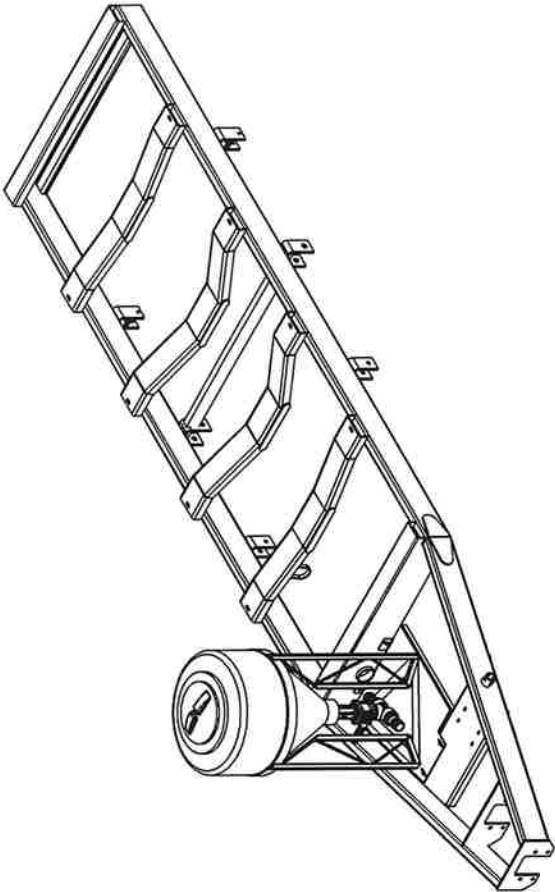
30 GALLON INDUCTOR STAND PACKAGE (AMES/MARSHALL) PART NUMBER: 20030005-30F



30 GALLON INDUCTOR STAND PACKAGE PART NUMBER: 20030005-30

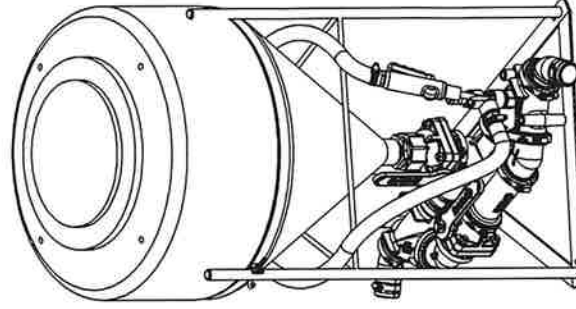
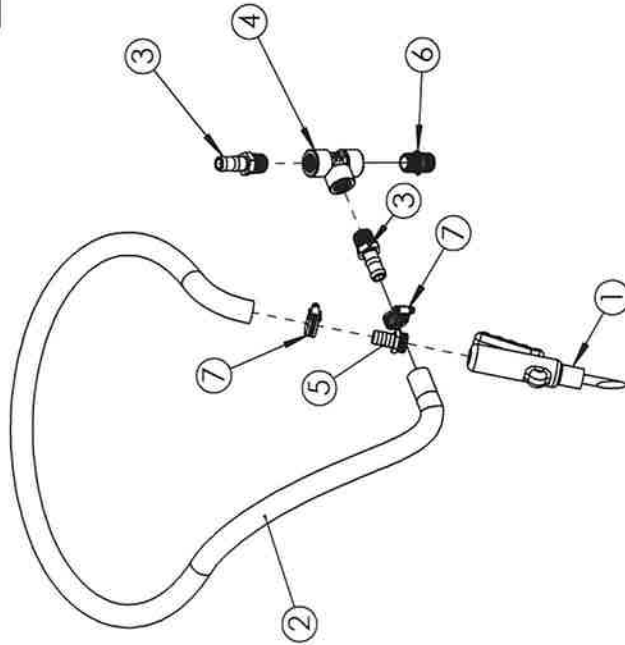


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	47003583	INDUCTOR STAND MOUNT (BOLT-ON)	1
2	18056822	BOLT HX CAP G5NCZC 3/8 X 1	7
3	18496800	FLANGE NUT, 3/8-16 NC	7
4	700131	TANK STAND, 30 GALLON	1
5	700130	30 GALLON TANK	1
6	NIP200-6	2" X 6" LG CLOSE NIPPLE	1
7	200035	2" VALVE, FULL PORT MPT X FPT	1
8	TEE200	2" TEE	1
9	HB200	2" HOSE BARB	2
10	200261	2" HOSE CLAMP	2

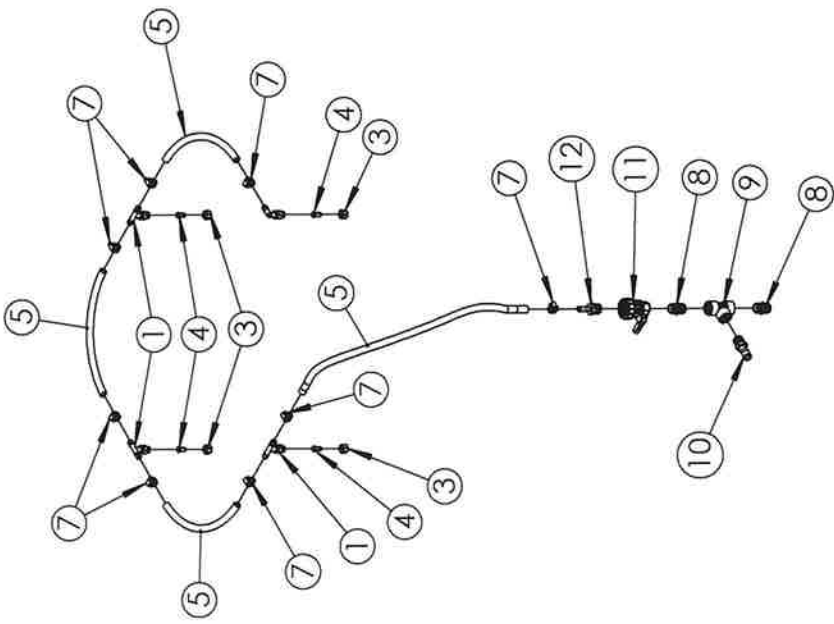


JUG / JET RINSE OPTION **PART NUMBER: JRO**

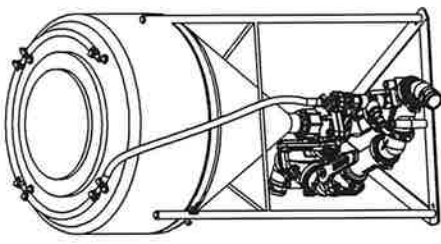
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	JR24	JET RINSE NOZZLE	1
2	SP075	3/4 X 2SP HOSE	8'
3	HB075	HOSE BARB, 3/4 MALE THREAD, BANJO	2
4	TEE075	3/4" TEE	1
5	NY-MGHT075	3/4 GARDEN HOSE FITTING	1
6	NIP075-SH	NIPPLE, 3/4, SHORT, BANJO	1
7	HC-.750	HOSE CLAMP, 3/4 HOSE	2



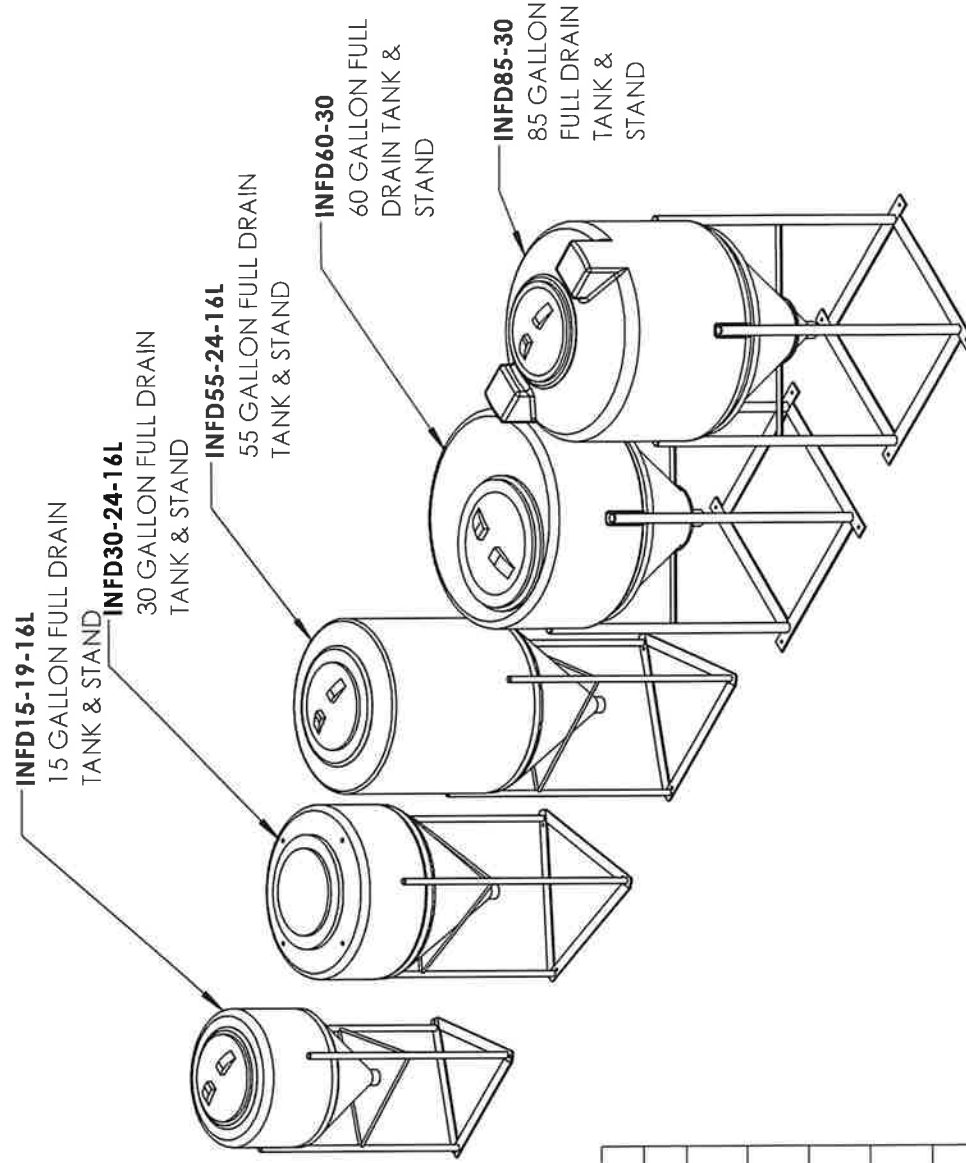
CHEMICAL INDUCTOR TANK RINSE PACKAGE PART NUMBER: CITRP



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	NY-NBTEE050	NOZZLE BODY TEE	3
2	NY-BEL050	EL & NUT - NY	1
3	NY-NBCAP	NOZZLE BODY CAP	4
4	TF-VS5	TURBO FLOODJET WIDE	4
5	SP050	1/2" X 2SP HOSE	9'
7	HC-.500	HOSE CLAMP, 1/2 IN HOSE	8
8	NIP075-SH	NIPPLE, 3/4, SHORT, BANJO	2
9	TEE075	3/4" TEE	1
10	HB075	HOSE BARB, 3/4 MALE THREAD, BANJO	1
11	UV075FP	3/4 POLY UNION VALVE	1
12	HB075-050	HOSE BARB, 3/4 MALE THREAD, BANJO	1



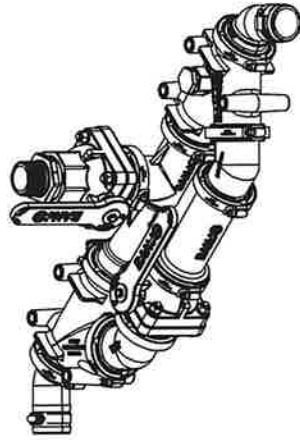
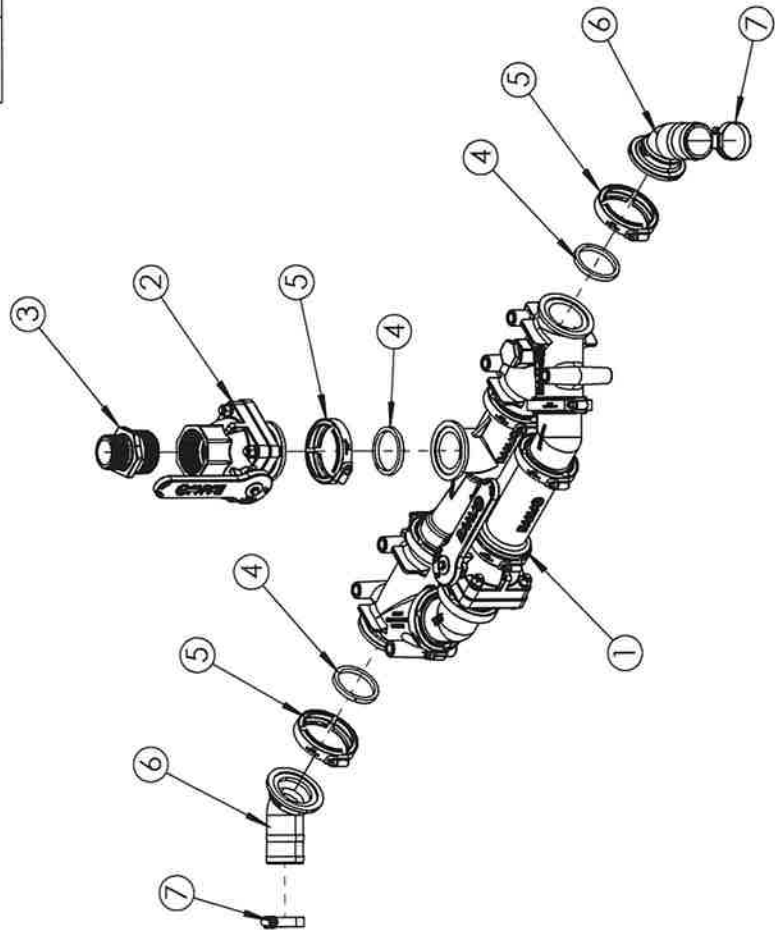
INDUCTOR TANKS / PLUMBING PACKAGE



TANK & STAND	INDUCTOR KIT PART NUMBER	
	2" INDUCTOR	3" INDUCTOR
INFD-15-19-16L (15 GALLON)	2IPP-1	3IPP-1
INFD30-24-16L (30 GALLON)	2IPP-1	3IPP-1
INFD55-24-16L (55 GALLON)	2IPP-1	3IPP-1
INFD60-30 (60 GALLON)	2IPP-2	3IPP-2
INFD85-30 (85 GALLON)	2IPP-2	3IPP-2

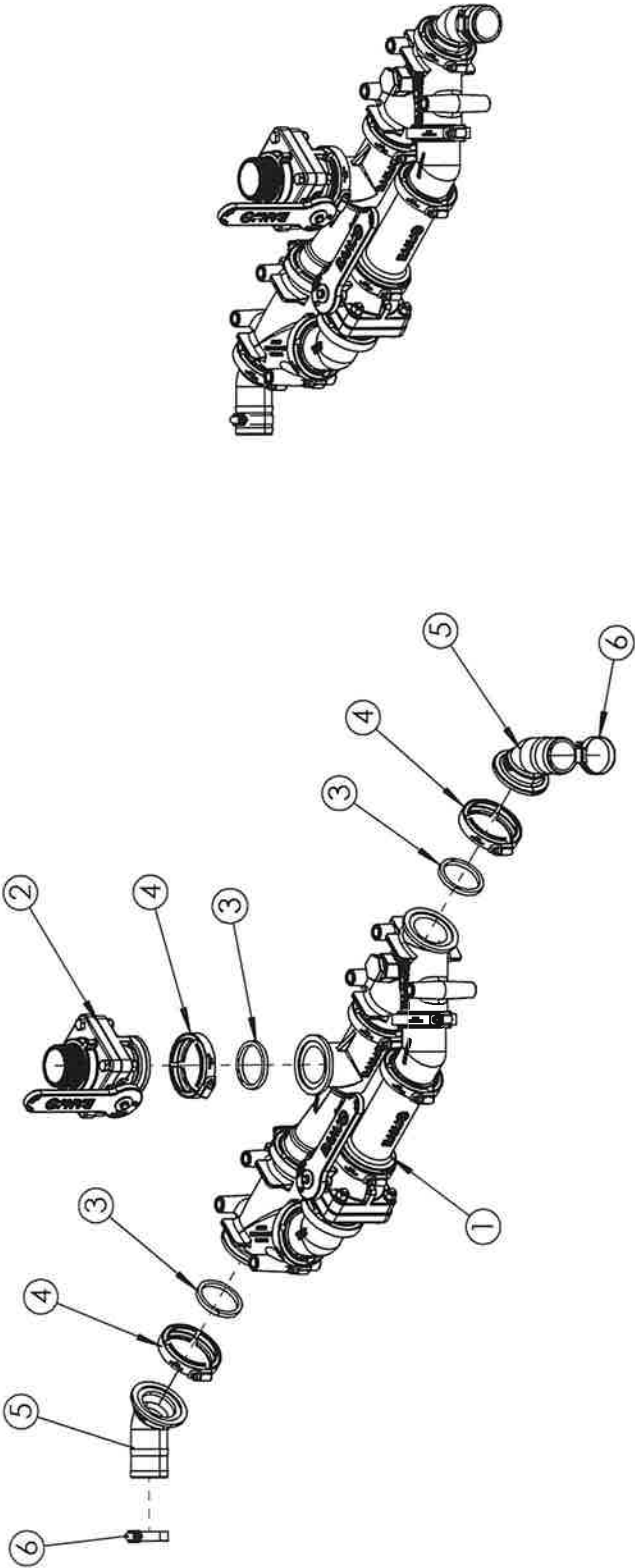
2" INDUCTOR PLUMBING PACKAGE **(FITS 15/30/55 GALLON INDUCTOR TANK)** **PART NUMBER: 2IPP-1**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MIS220	2" INDUCTOR MANIFOLD ASSY	1
2	MVS220FP	2" FPT X 2" FP FLANGE VALVE	1
3	21200150	2" X 1.5" REDUCING NIPPLE	1
4	UFG0200E-A	2" FLANGE GASKET	3
5	FC220	2" FLANGE CLAMP	3
6	M220BRB45	2" HOSE BARB X 45 DEGREES	2
7	200261	2" HOSE CLAMP	2



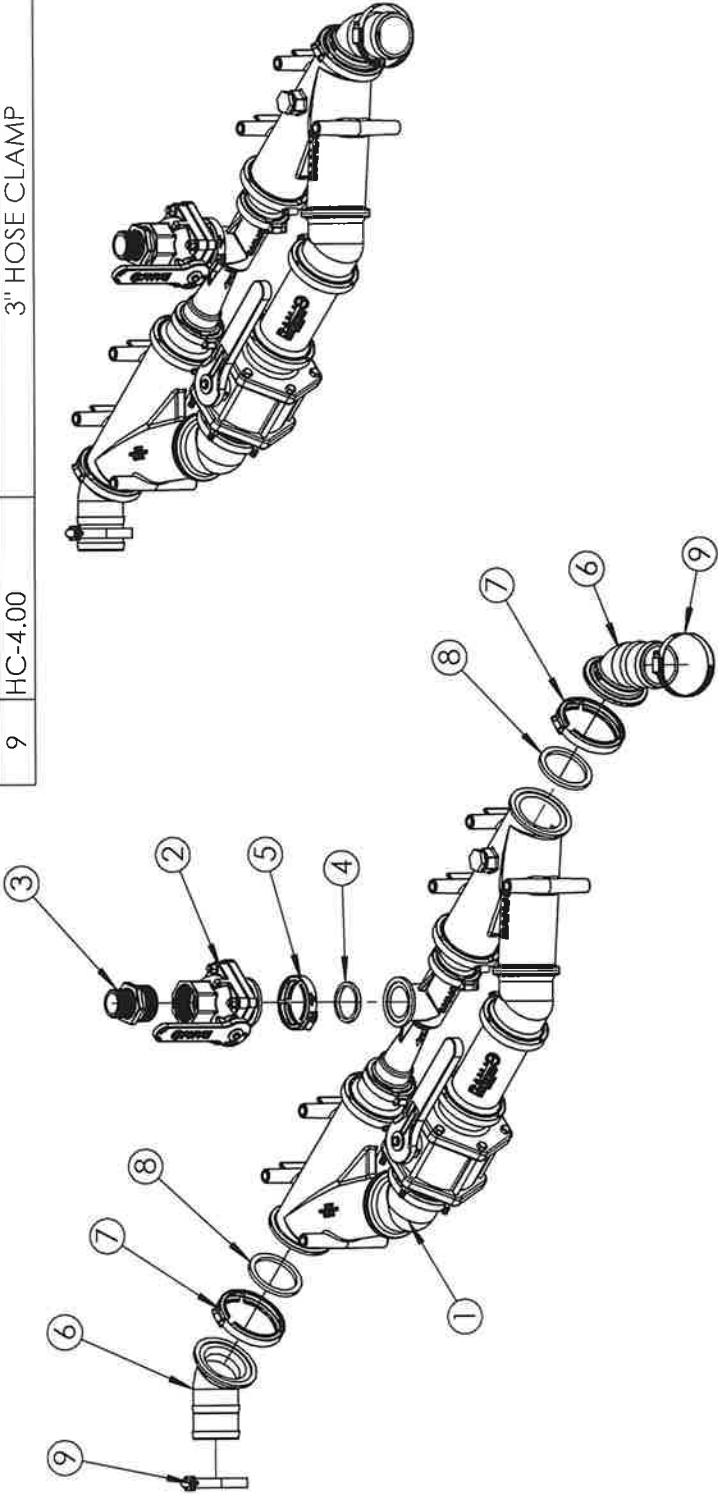
2" INDUCTOR PLUMBING PACKAGE **(FITS 60/85 GALLON INDUCTOR TANK)** **PART NUMBER: 2IPP-2**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MIS220	2" INDUCTOR MANIFOLD ASSY	1
2	MVSM220FP	2" MPT X 2" FP FLANGE VALVE	1
3	UFG0200E-A	2" FLANGE GASKET	3
4	FC220	2" FLANGE CLAMP	3
5	M220BRB45	2" HOSE BARB X 45 DEGREES	2
6	200261	2" HOSE CLAMP	2



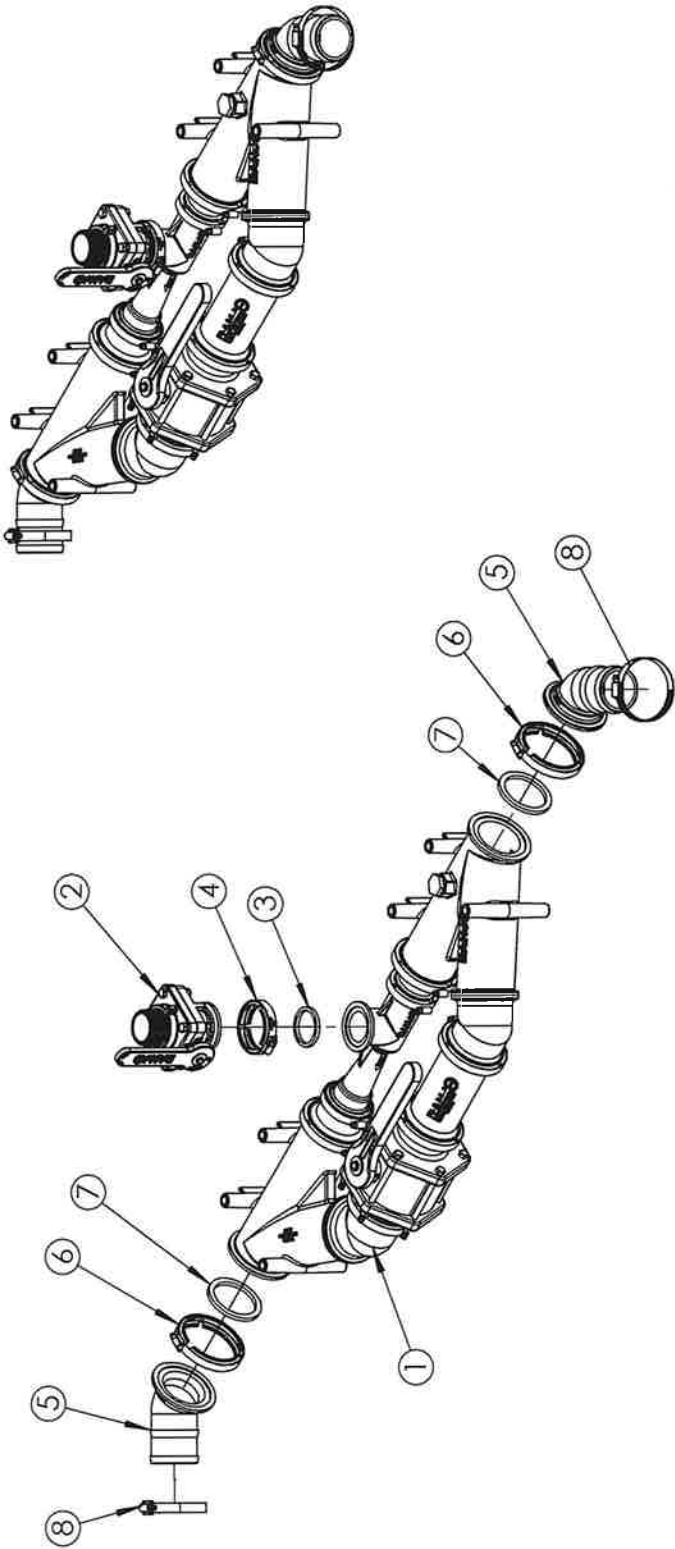
3" INDUCTOR PLUMBING PACKAGE **(FITS 15/30/55 GALLON INDUCTOR TANK)** **PART NUMBER: 3IPP-1**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MIS300	3" INDUCTOR ASSEMBLY	1
2	MVS220FP	2" FPT X 2" FP FLANGE VALVE	1
3	21200150	2" X 1.5" REDUCING NIPPLE	1
4	UFG0200E-A	2" FLANGE GASKET	1
5	FC220	2" FLANGE CLAMP	1
6	M300BRB45	3" MANIFOLD HOSE BARB X 45 DEGREE	2
7	FC300	3" FLANGE CLAMP	2
8	UFG0300E-A	3" FLANGE GASKET	2
9	HC-4.00	3" HOSE CLAMP	2

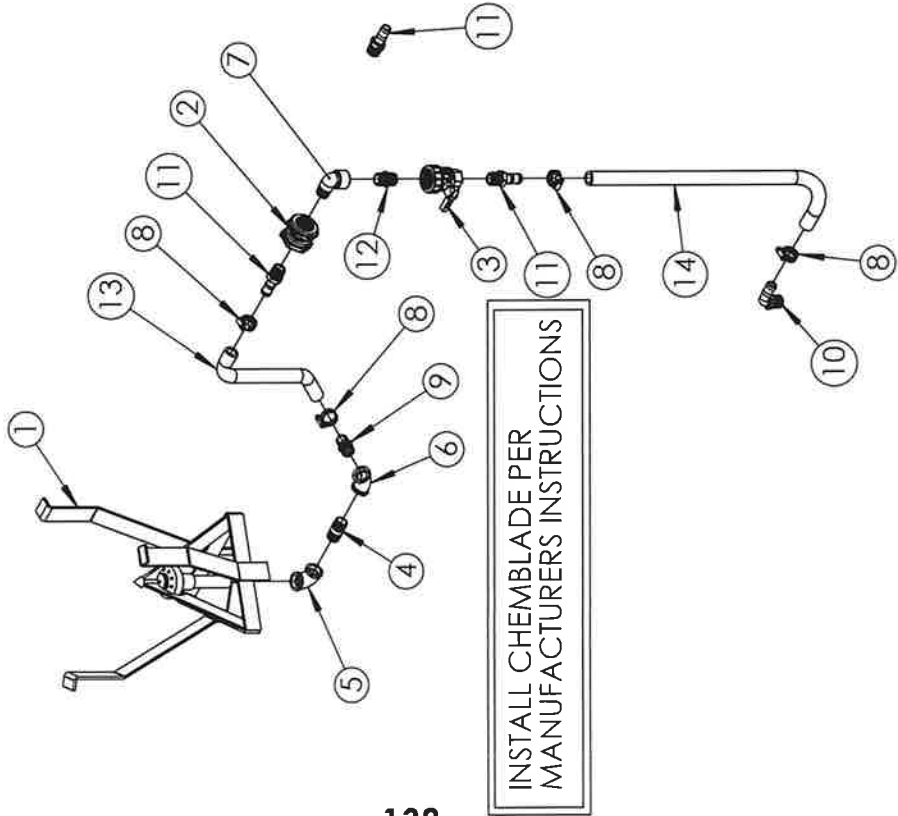


3" INDUCTOR PLUMBING PACKAGE **(FITS 60/85 GALLON INDUCTOR TANK)** **PART NUMBER: 3IPP-2**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MIS300	3" INDUCTOR ASSEMBLY	1
2	MVSM220FP	2" MPT X 2" FP FLANGE VALVE	1
3	UFG0200E-A	2" FLANGE GASKET	1
4	FC220	2" FLANGE CLAMP	1
5	M300BRB45	3" MANIFOLD HOSE BARB X 45 DEGREE	2
6	FC300	3" FLANGE CLAMP	2
7	UFG0300E-A	3" FLANGE GASKET	2
8	HC-4.00	3" HOSE CLAMP	2



CHEM-BLADE INDUCTOR KIT **PART NUMBER: CBIK**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CHEMBLADE	CHEMBLADE TANK RINSE	1
2	TF075	3/4" TANK BUNG	1
3	UV075FP	3/4 POLY UNION VALVE	1
4	SS-NIP-075-2	3/4" SS NIPPLE X 2" LG	1
5	SS-EL-075-90	3/4" SS ELBOW 90 DEGREE	1
6	SS-EL-075-45	3/4" SS ELBOW 45 DEGREE	1
7	SL075-90	3/4" STREET ELBOW	1
8	HC-.750	HOSE CLAMP, 3/4 HOSE	4
9	HB075SS	3/4" SS HOSE BARB	1
10	HB075-90	3/4 HOSE BARB ELBOW 90 DEGREE	1
11	HB075	HOSE BARB, 3/4 MALE THREAD, BANJO	3
12	NIP075-SH	NIPPLE, 3/4, SHORT, BANJO	1
13	EVAR075	3/4" BRAIDED EVA TUBING	1
14	SP075	3/4" SPRAYER HOSE	1

Heartland Agriculture LLC, dba Heartland AG Systems